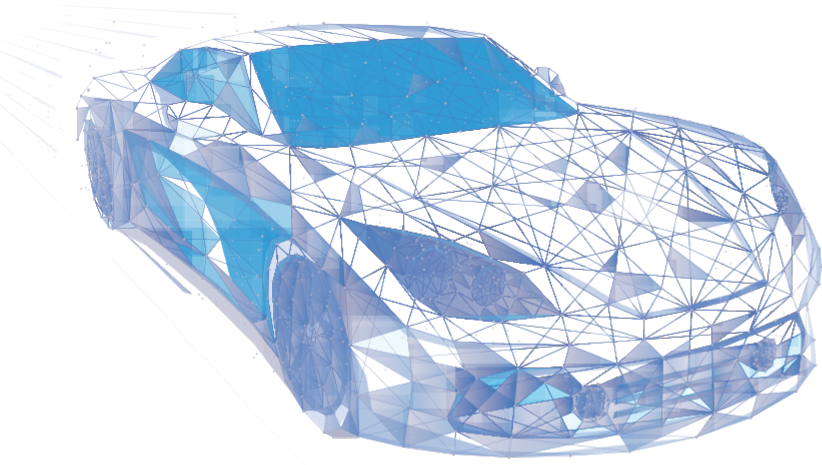


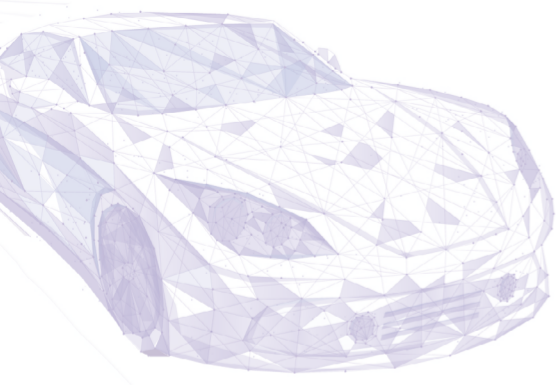
# Application Guide



Shenzhen Sunlord Electronics Co., Ltd.



**Sunlord**  
expert in e components



# Application Guide

Shenzhen Sunlord Electronics Co., Ltd.



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## 5 Personal Electronic

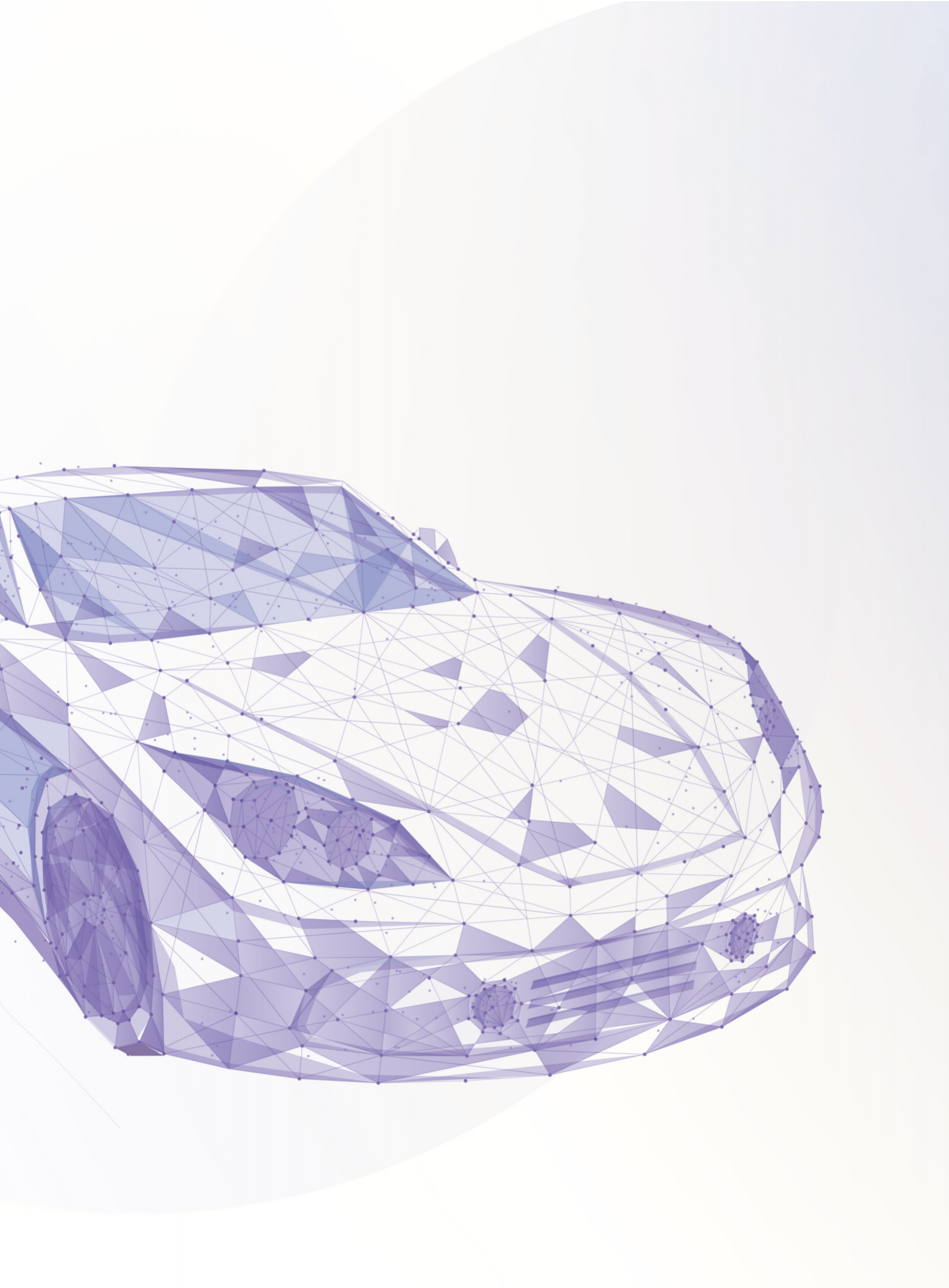
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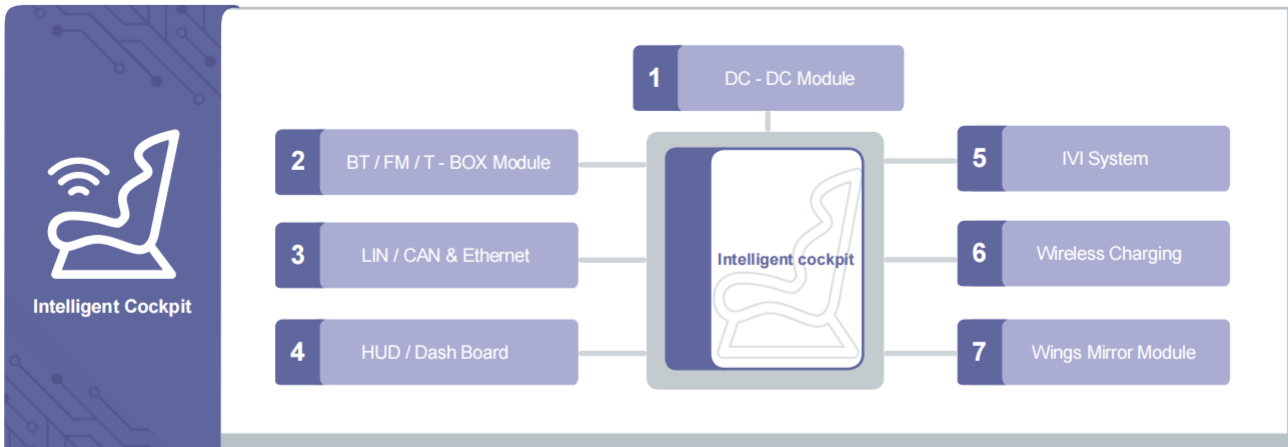
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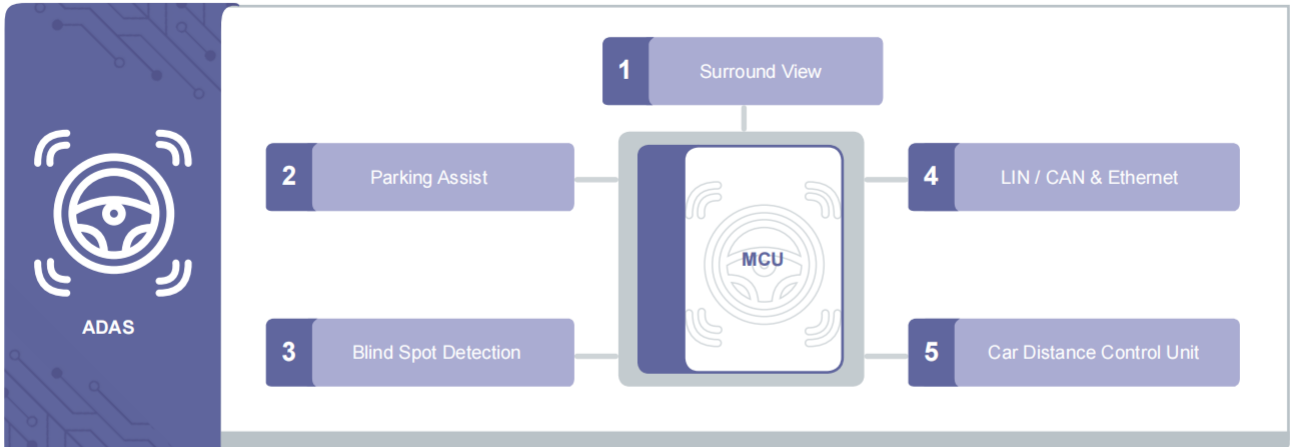
# Sunlord Application Guide



# Intelligent Cockpit



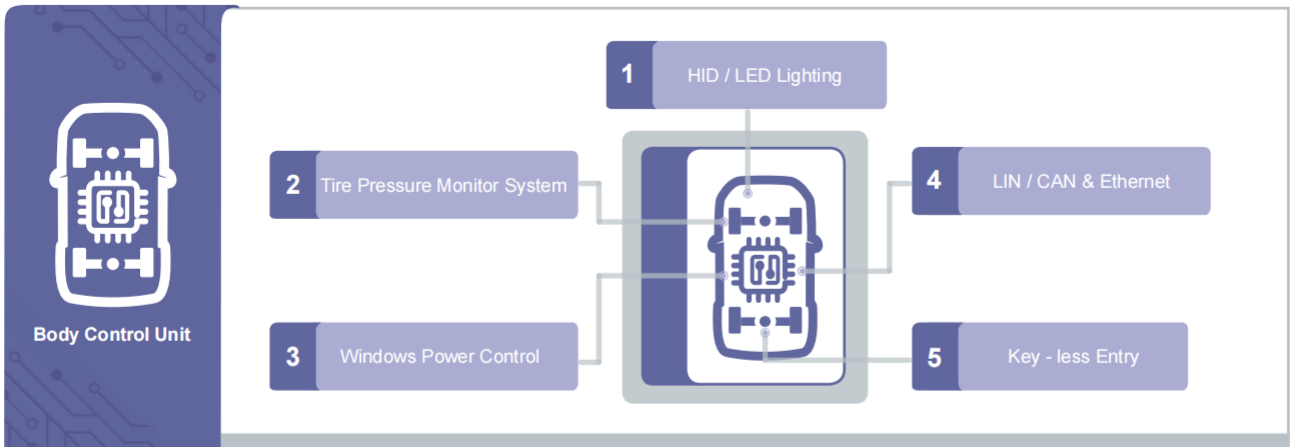
1 DC - DC Module	
Power Inductor / ASWPA & AMWPH & AMWPQ & AMP & AMPT Series	ASWPA  AMWPH  AMWPQ AMP  AMPT
Transformer / ATWPEP Series	ATWPEP
2 BT / FM / T - BOX Module	
RF Inductor / AWL - FP & ASDCL Series	AWL - FP ASDCL
3 LIN / CAN & Ethernet	
Common Mode Choke / AMCW & AMCW - L & AMCW - G Series	AMCW - B / L / G
Pulse Transformer / ALTWR Series	ALTWR
4 HUD / Dash Board	
Power Inductor / ASWPA & AMWPH & AMWPB & AMP & AMPT Series	ASWPA  AMWPH  AMWPB AMP  AMPT  AWPE
Common Mode Choke / AMCW Series	AMCW
5 IVI System	
Power Inductor / ASWPA & AMWPH & AMWPB & AMP & AMPT Series	ASWPA  AMWPH  AMWPB AMP  AMPT  AWPE
Common Mode Choke / AMCW Series	AMCW
6 Wireless Charging	
Wireless Charging Coil / AMQC & AMQK Series	AMQC AMQK
7 Wings Mirror Module	
Power Inductor / ASWPA & AMWPH & AMWPB & AMP & AMPT Series	ASWPA  AMWPH  AMWPB AMP  AMPT  AWPE
Common Mode Choke / AMCW Series	AMCW



1	Surround View	
	Power Inductor / ASWPA & AMWPH & AMWPB & AMP & AMPT Series	ASWPA     AMWPB AMWPH     AMP AMPT
	RF Inductoer / AWL - FP Series	AWL - FP
2	Parking Assist	
	Ultrasonic Drive Transformer / ATWPEP Series	ATWPEP
3	Blind Spot Detection	
	Power Inductor / ASWPA & AMWPH & AMWPB & AMP & AMPT Series	ASWPA     AMWPB AMWPH     AMP AMPT
	RF Inductoer / AWL - FP Series	AWL - FP
4	LIN / CAN & Ethernet	
	Common Mode Choke / AMCW Series	AMCW
	Pulse Transformer / ALTWR Series	ALTWR
5	Car Distance Control Unit	
	Power Inductor / ASWPA & AMWPH & AMWPB & AMP & AMPT Series	ASWPA     AMWPB AMWPH     AMP AMPT

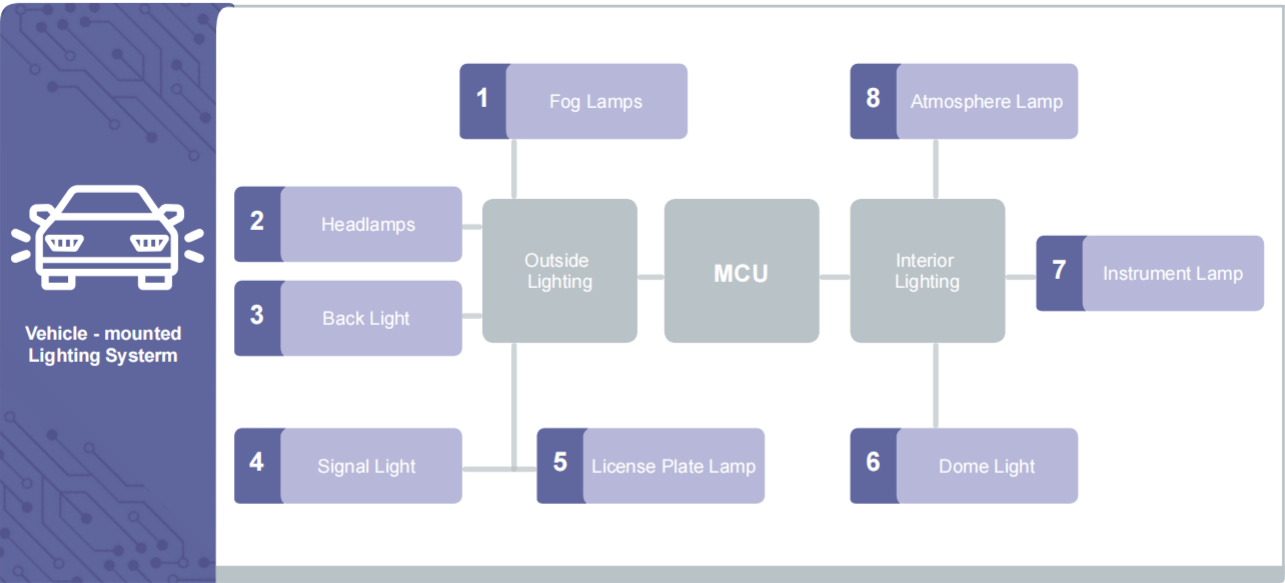


# Body Control Unit



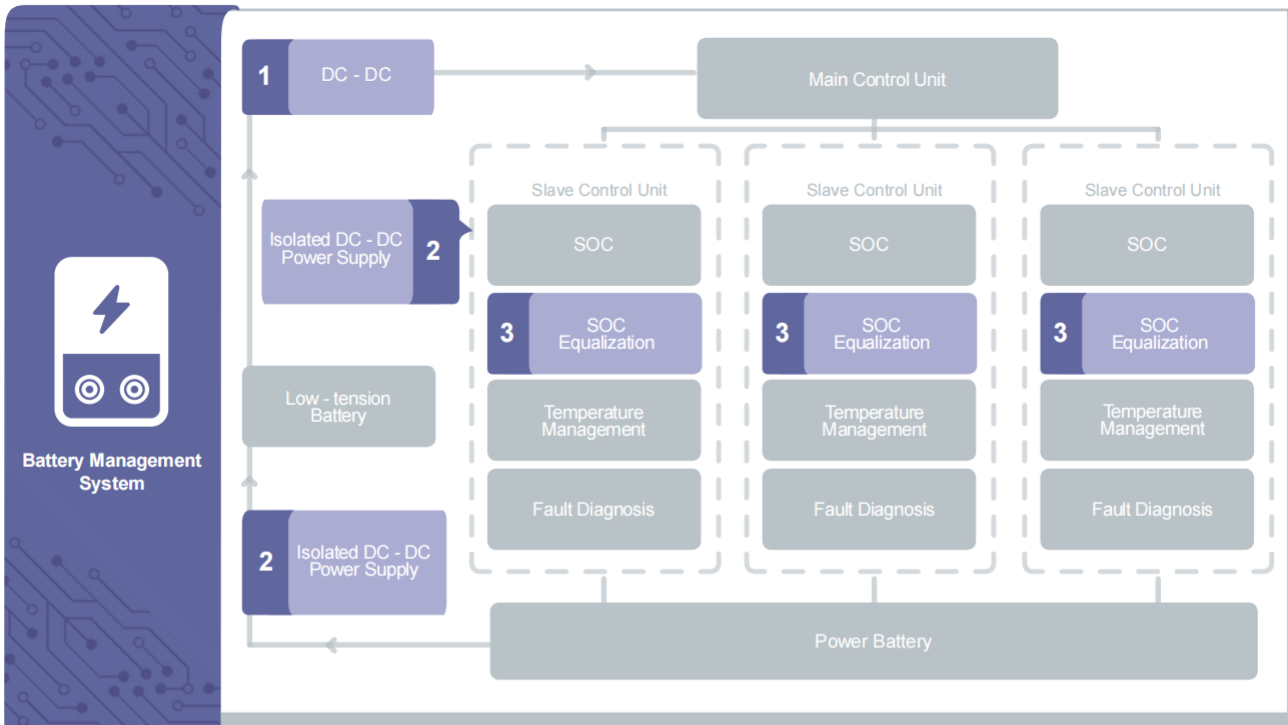
1	HID / LED Lighting	
Power Inductor / ASWPA & AMWPQ & AMWPH & AMWPB & ACPR & AMP & AMPT Series	ASWPA                      AMWPQ AMWPH                      AMWPB ACPR                      AMP AMPT	
Common Mode Choke / AMCW & ACSR Series	AMCW ACSR	
2	Tire Pressure Monitor System	
RF Inductor / ASDCL & AWL - C & AWL - FS Series	ASDCL                      AWL - FS AWL - C	
3	Windows Power Control	
Power Inductor / ASWPA & AMWPQ & AMWPH & AMWPB & AMP & AMPT Series	ASWPA                      AMWPQ AMWPH                      AMWPB AMP                      AMPT	
4	LIN / CAN & Ethernet	
Common Mode Choke / AMCW Series	AMCW	
Pulse Transformer / ALTWR Series	ALTWR	
5	Key - less Entry	
RF Inductor / ASDCL & AWL - C & AWL - FS Series	ASDCL                      AWL - C AWL - FS	

# Vehicle - mounted Lighting System



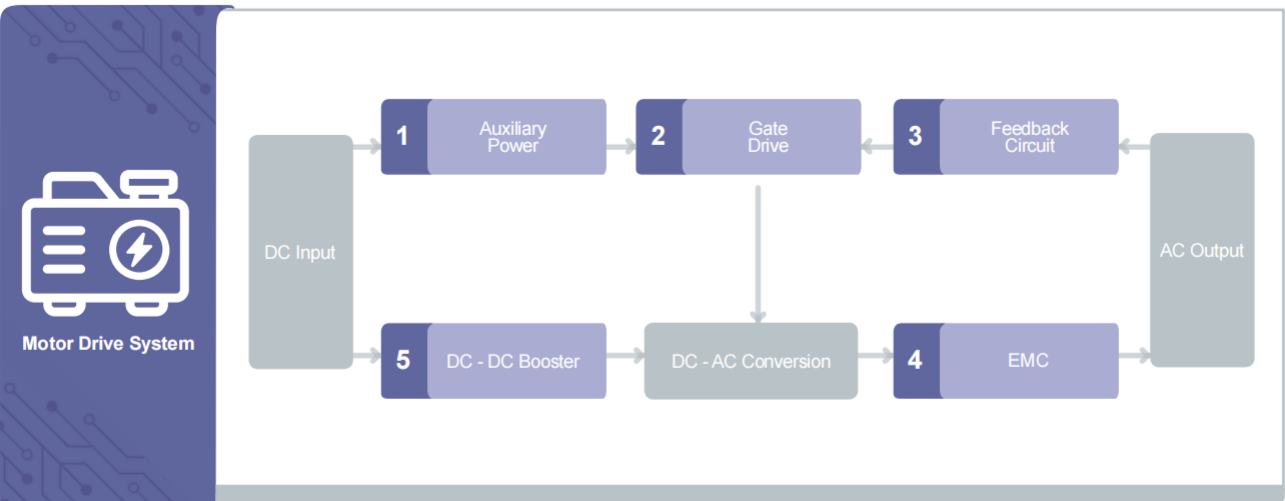
1 HID / LED Lighting	
Power Inductor / ASWPA & AMWPQ & AMWPH & AMWPB & ACPR & AMP & AMPT Series	ASWPA     AMWPQ AMWPH     AMWPB ACPR     AMP AMPT
Common Mode Choke / AMCW & ACSR Series	AMCW ACSR












# Battery Management System



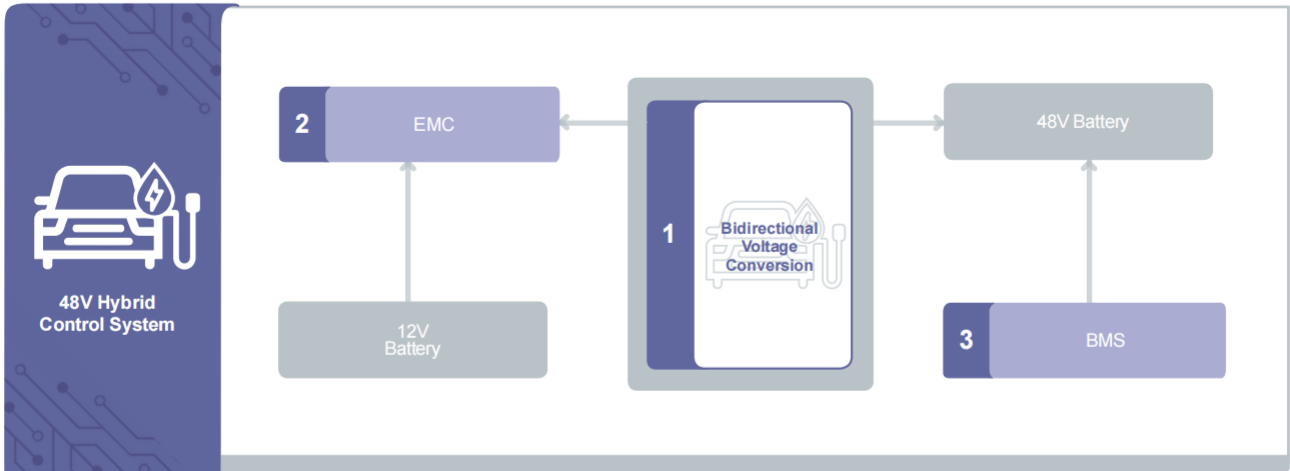
1	DC - DC	
	Power Inductor / ASWPA & AMWPH & AMWPB & AMP & AMPT Series	ASWPA     AMWPB AMWPH     AMP AMPT
2	Isolated DC - DC Power Supply	
	Transformer / ATWPEP Series	ATWPEP
3	SOC Equalization	
	Current Transformer / ATWPEP Series	ATWPEP
	Gate Drive Transformer / ATWPEP Series	ATWPEP
	Common Mode Choke / AMCW & ACSR Series	AMCW ACSR
	Pulse Transformer / ALTW Series	ALTW
	LAN Transformer / ALTWR Series	ALTWR

# Motor Drive System



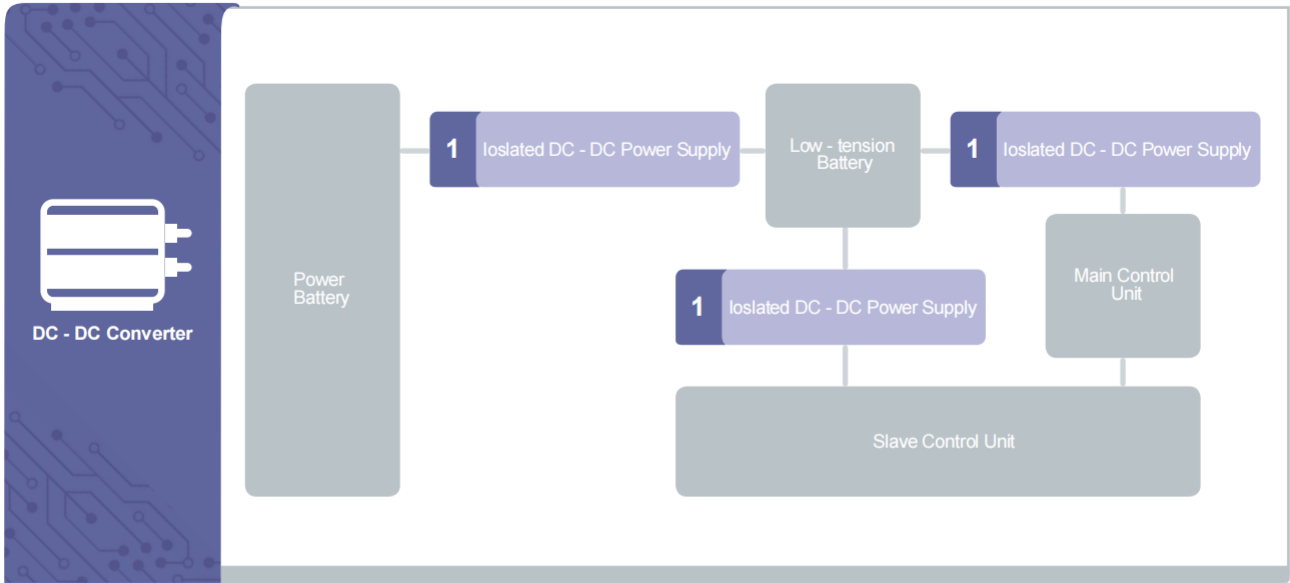
1	Auxiliary Power	
	Transformer / ATWPEF Series	 ATWPEF
2	Gate Drive	
	Gate Drive Transformer / ATWPEP Series	 ATWPEP  ATWPEP
3	Feedback Circuit	
	Electromagnetic Coupler / ATWPEP Series	 ATWPEP  ATWPEP
4	EMC	
	High Current Power Inductor / AMWPQ Series	 AMWPQ
	Ring Coil / ARCDC Series	 ARCDC
5	DC - DC Booster	
	Assembled Inductor/ AMWPQ Series	 AMWPQ
	LLC Transformer / ATWPEQ & ARLDC Series	 ATWPEQ  ARLDC
	Common Mode Choke / AMCW & ACSR Series	 AMCW  ACSR

# 48V Hybrid Control System



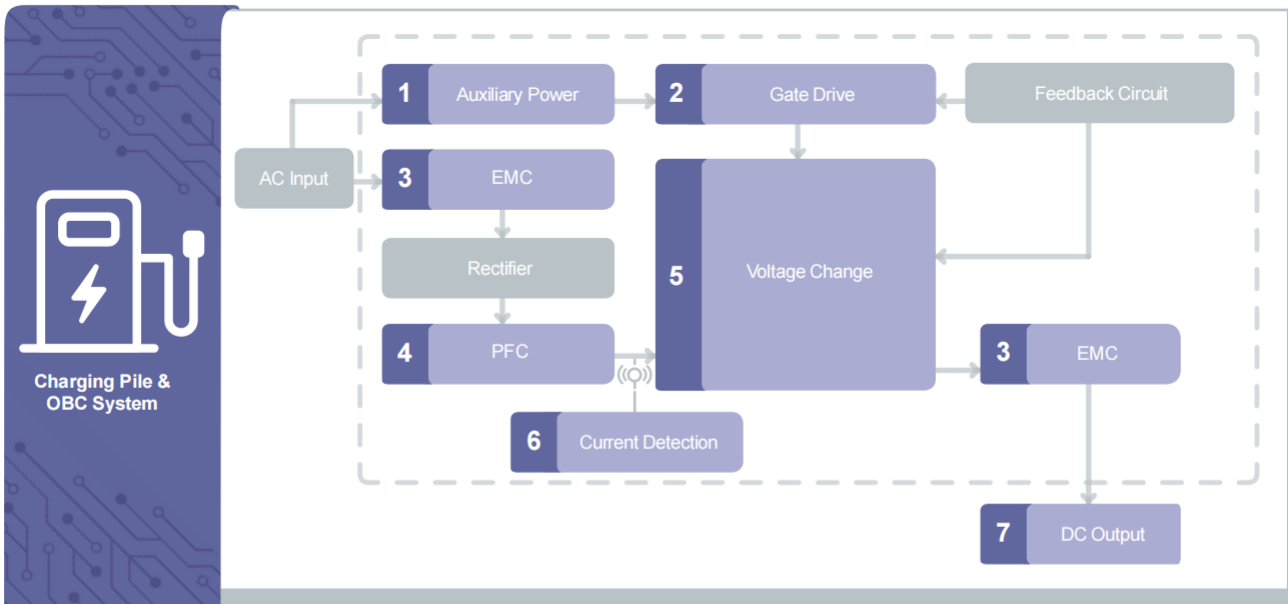
1 Bidirectional Voltage Conversion	
High Current Power Inductor / AMWPQ Series	AMWPQ
Power Inductor / ASWPA & AMWPH & AMWPB & AMP & AMPT Series	ASWPA  AMWPB AMWPH  AMP AMPT
Common Mode Choke / AMCW & ACSR Series	AMCW ACSR
2 EMC	
High Current Power Inductor / AMWPQ Series	AMWPQ
Ring Coil / ARCDC Series	ARCDC
3 BMS	
Power Inductor / ASWPA & AMWPH & AMWPB & AMP & AMPT Series	ASWPA  AMWPB AMWPH  AMP AMPT
Pulse Transformer / ALTW Series	ALTW
LAN Transformer / ALTWR Series	ALTWR
Common Mode Choke / AMCW & ACSR Series	AMCW ACSR















# DC - DC Converter



1 DC - DC Converter	
Power Inductor / ASWPA & AMWPH & AMWPB & AMP & AMWPQ & AMPT Series	 ASWPA  AMP  AMWPH  AMWPQ  AMWPB  AMPT
Transformer / ATWPEP Series	 ATWPEP

# Charging Pile & OBC System



<b>1</b>	<b>Auxiliary Power</b>	
Transformer / ATWPEP & ATWPEF Series		 ATWPEP  ATWPEF
<b>2</b>	<b>Gate Drive</b>	
Gate Drive Transformer / ATWPEP Series		 ATWPEP
<b>3</b>	<b>EMC</b>	
High Current Power Inductor / AMWPQ Series		 AMWPQ
Ring Coil / ARCDC Series		 ARCDC
<b>4</b>	<b>PFC</b>	
Boost Choke / ATWPEQ Series		 ATWPEQ
Ring Coil / ARLDC Series		 ARLDC50  ARLDC58
<b>5</b>	<b>Voltage Change</b>	
LLC Transformer / ATWPPQ Series		 ATWPPQ50  ATWPPQ65
<b>6</b>	<b>Current Detection</b>	
Current Transformer / ATWPEP Series		 ATWPEP  ATWPEP06
<b>7</b>	<b>DC Output</b>	
Common Mode Inductor / AMCW & ACSR Series		 AMCW  ACSR



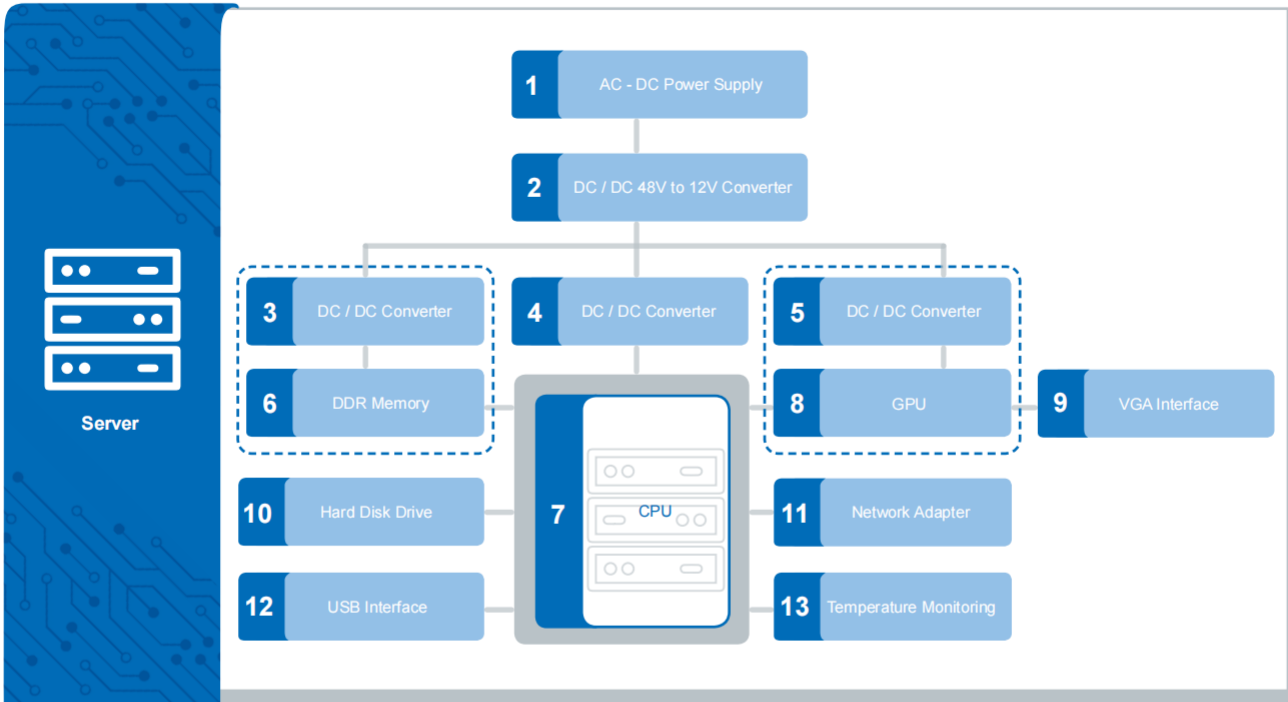


















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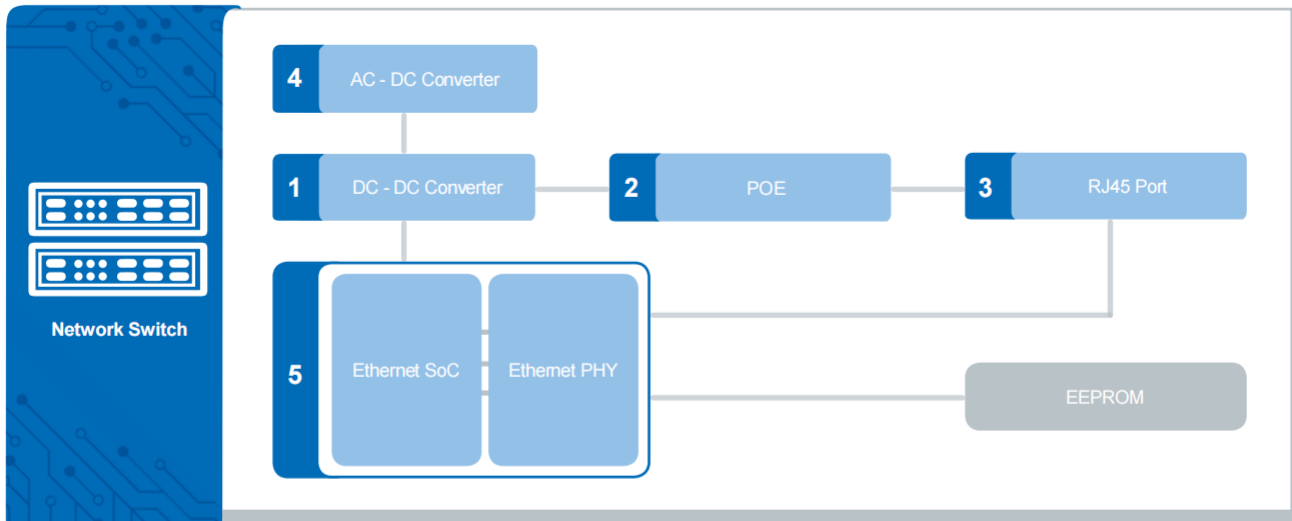
- Data Center & Enterprise Computing



1 AC / DC Power Supply	
Planar Electronic Transformer / TPP Serieses	TPP
Wire Wound Electronic Transformer / TWP Series	TWP
Chip NTC Thermistor / SDNT Series	SDNT
2 DC / DC 48V to 12V Converter	
Multilayer Chip Ferrite Bead / PZ & UPZ & EPZ Series	PZ / UPZ / EPZ
Multilayer Chip Varistor for Voltage surge Suppression / SDVL - HS Series	SDVL - HS
Assembled Coupler Inductor / WPE Series	WPE
Chip Solid Tantalum Capacitors / TC2 & TC3 Series	TC2 / TC3
Planar Electronic Transformer / TPP Series	TPP
Wire Wound Electronic Transformer / TWP Series	TWP
3 DC / DC Converter	
Wire Wound SMD Power Inductor / SWPA & SPH & WPN Series	SWPA / SPH / WPN
Molded SMD Power Inductor / MWSA & MWLA & MWTC & WT Series	MWSA / MWLA MWTC / WT
Chip Solid Tantalum Capacitors / TC2 & TC3 Series	TC2 / TC3

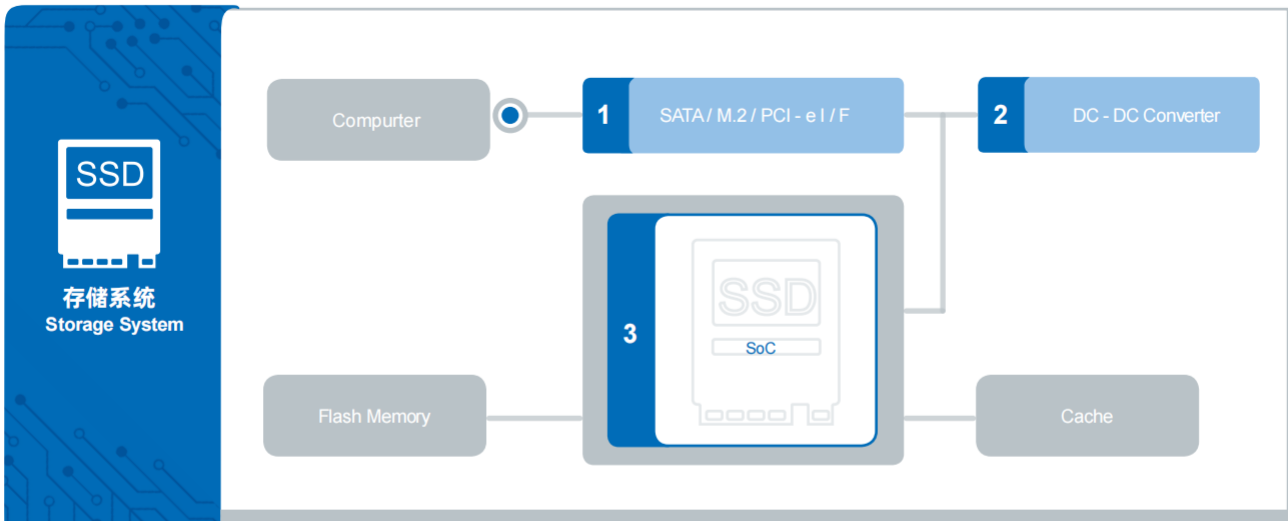
4 / 5 DC / DC Converter	
Assembled Wire Wound SMD Power Inductor / WPZ Series	 WPZ
Chip Solid Tantalum Capacitors / TC2 & TC3 Series	 TC2 / TC3
Molded SMD Power Inductor / MWSA & MWLA & MWTC & WT Series	 MWSA / MWLA  MWTC / WT
6 / 7 / 8 / 10 DDR Memory / CPU / GPU / Hard Disk Drive	
Multilayer Chip Ferrite Bead / GZ & SZ & PZ & UPZ Series	 GZ / SZ / PZ / UPZ
9 / 12 VGA Interface / USB Interface	
Multilayer Chip Ferrite Bead / GZ & SZ & PZ & UPZ Series	 GZ / SZ / PZ / UPZ
Multilayer Chip Varistor / SDV Series	 SDV
Wire Wound Chip Common mode choke / SDCW Series	 SDCW
11 Network Adapter	
Multilayer Chip Varistor for Voltage surge Suppression / SDVL - HS Series	 SDVL - HS
Pulse Transformer / ALTW Series	 ALTW
Wire Wound Chip Common mode choke / SDCW Series	 SDCW
13 Temperature Monitoring	
Chip NTC Thermistor / SDNT Series	 SDNT

# Network Switch



1	DC / DC Converter	
Multilayer Chip Ferrite Bead / PZ & UPZ & EPZ Series		PZ / UPZ / EPZ
Wire Wound SMD Power Inductor / SWPA & SPH & WPN Series		SWPA / SPH / WPN
Molded SMD Power Inductor / MWSA & WT Series		MWSA WT
Multilayer Chip Varistor for Voltage surge Suppression / SDVL - HS Series		SDVL - HS
Assembled Wire Wound SMD Power Inductor / WPZ Series		WPZ
2	POE	
POE Transformer / TWPEP Series		TWPEP
3	RJ45 Port	
LAN Transformer / TWSHI Series		TWSHI
Wire Wound Chip Common Mode Choke / SDCW Series		SDCW
Multilayer Chip Varistor for Voltage Surge Suppression / SDVL - HS Series		SDVL - HS
4	AC - DC Converter	
Multilayer Chip Ferrite Bead / PZ & UPZ & EPZ Series		PZ / UPZ / EPZ
Wire Wound Electronic Transformer / TWP Series		TWP
5	Ethernet SoC / PHY	
Chip Temp. Sensing NTC Thermistor / SDNT Series		SDNT
Multilayer Chip Ferrite Bead / HZ & SZ Series		HZ / SZ


# Storage System



1	SATA / M.2 / PCI - e I / F	
Multilayer Chip Common Mode Filter / SDMM Series		SDMM
Multilayer Chip Varistor / SDV Series		SDV
Multilayer Chip Ferrite Bead / HZ & SZ Series		HZ / SZ
2	DC - DC Converter	
Mini Molded Chip Power Inductors / MWTC Series		MWTC
Chip Solid Polymer Tantalum Capacitors / TC3 Series		TC3
Multilayer Chip Ferrite Bead / PZ & UPZ & EPZ Series		PZ / UPZ / EPZ
3	SoC	
Chip Temp. Sensing NTC Thermistor / SDNT Series		SDNT
Multilayer Chip Ferrite Bead / HZ & SZ Series		HZ / SZ

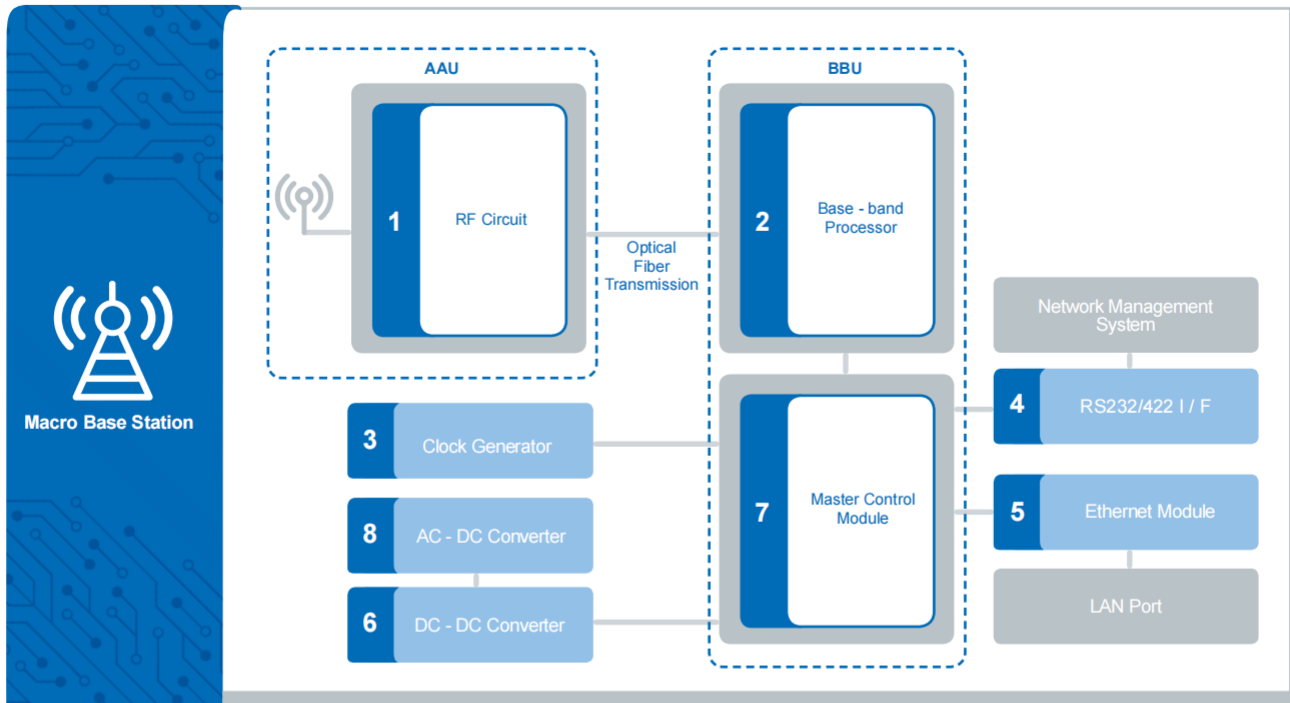














# Sunlord Application Guide

 Communication Equipment



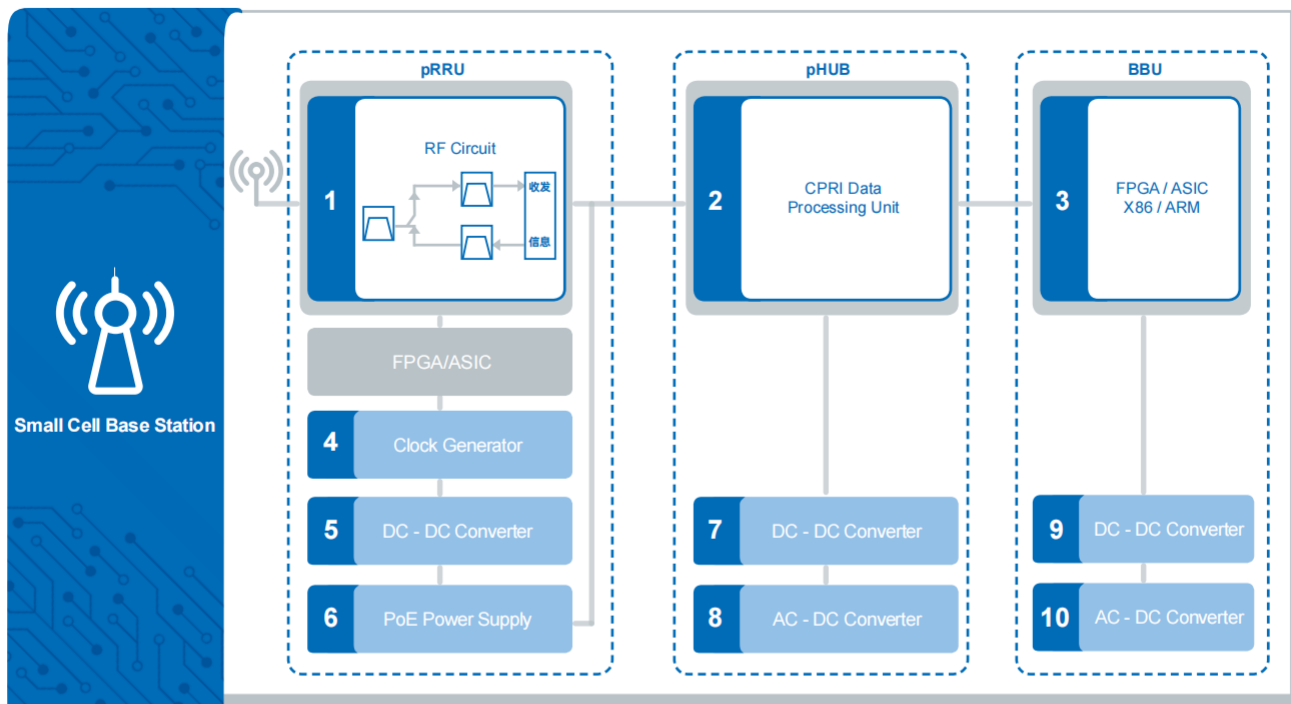
# Macro Base Station



















1	RF Circuit	
	Wire Wound Chip Ceramic Inductor / MWSD - C Series	 MWSD - C
	Wire Wound Chip Ceramic Inductor / SDWL - C Series	 SDWL - C
	Multilayer Chip High Q Inductor / HQ Series	 HQ
	Multilayer Chip Ceramic Inductor / SDCL Series	 SDCL
	Multilayer Chip LC Fitter / SLFB Series	 SLFB
	Multilayer Chip Balun / SLBL Series	 SLBL
	Multilayer Chip LC Coupler / SLCP Series	 SLCP
	Dielectric Waveguide Filter / VFCF Series	 VFCF
2	Base - band Processor Unit	
	Multilayer Chip Ferrite Bead / PZ & UPZ & EPZ Series	 PZ / UPZ / EPZ
	Chip Solid Tantalum Capacitors / TC2 & TC3 Series	 TC2 / TC3
	Chip NTC Thermistor / SDNT Series	 SDNT
3	Clock Generator	
	Multilayer Chip Ferrite Bead / SZ Series	 SZ

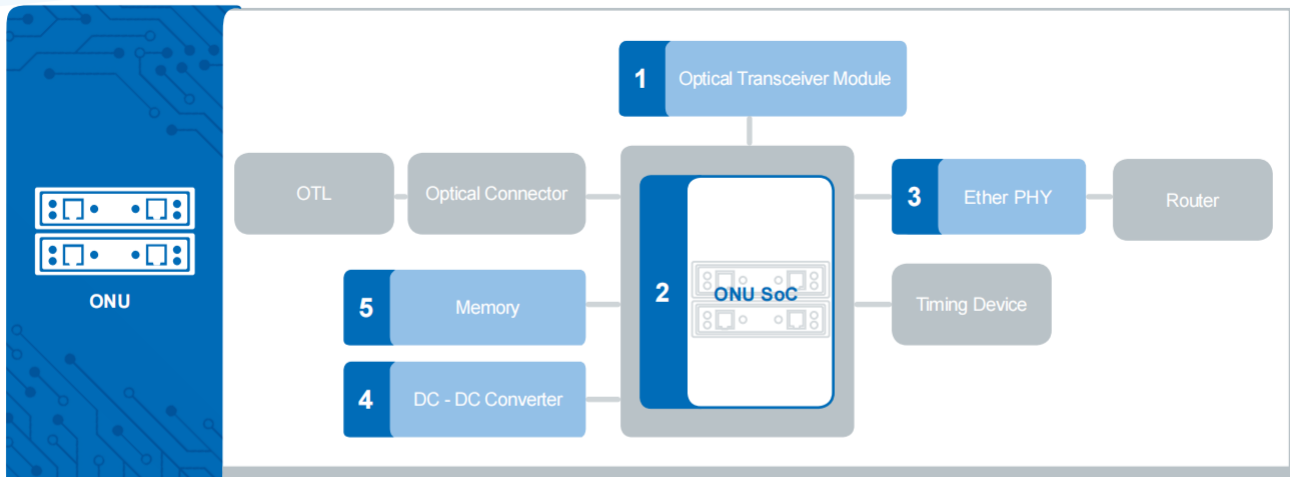
4 RS232 / 422 I / F	
Multilayer Chip Varistor / SDV Series	 SDV
Multilayer Chip Varistor for Voltage Surge Suppression / SDVL - HS Series	 SDVL - HS
5 Ethernet Module	
Multilayer Chip Varistor / SDV Series	 SDV
Multilayer Chip Ferrite Bead / GZ & PZ & UPZ & EPZ Series	 GZ / PZ / UPZ / EPZ
Multilayer Chip Varistor for Voltage surge Suppression / SDVL - HS Series	 SDVL - HS
LAN Transformer / TWSHI Series	 TWSHI
Wire Wound Chip Common Mode Choke / SDCW Series	 SDCW
6 DC - DC Converter	
Wire Wound SMD Power Inductor / SWPA & SPH & WPN Series	 SWPA / SPH / WPN
Multilayer Chip Ferrite Bead / PZ & UPZ & EPZ Series	 PZ / UPZ / EPZ
Power Inductor / IMWR Series	 IMWR
Multilayer Chip Varistor for Voltage surge Suppression / SDVL - HS Series	 SDVL - HS
Chip Solid Tantalum Capacitors / TC2 & TC3 Series	 TC2 / TC3
Chip NTC Thermistor / SDNT Series	 SDNT
Molded Inductor / WT Series	 WT
Assembled SMD Power Inductors / WPZ Series	 WPZ
7 Master Control Module	
Multilayer Chip Ferrite Inductor / SDFL Series	 SDFL
Wire Wound Chip Ferrite Inductor / SDWL - FW Series	 SDWL - FW
Multilayer Chip Ferrite Bead / GZ & PZ & UPZ & EPZ Series	 GZ / PZ / UPZ / EPZ
Chip Solid Tantalum Capacitors / TC2 & TC3 Series	 TC2 / TC3
8 AC / DC Converter	
Wire Wound Electronic Transformer / TWP Series	 TWP
Chip NTC Thermistor / SDNT Series	 SDNT
Multilayer Chip Varistor for Voltage surge Suppression / SDVL - HS Series	 SDVL - HS

# Small Cell Base Station



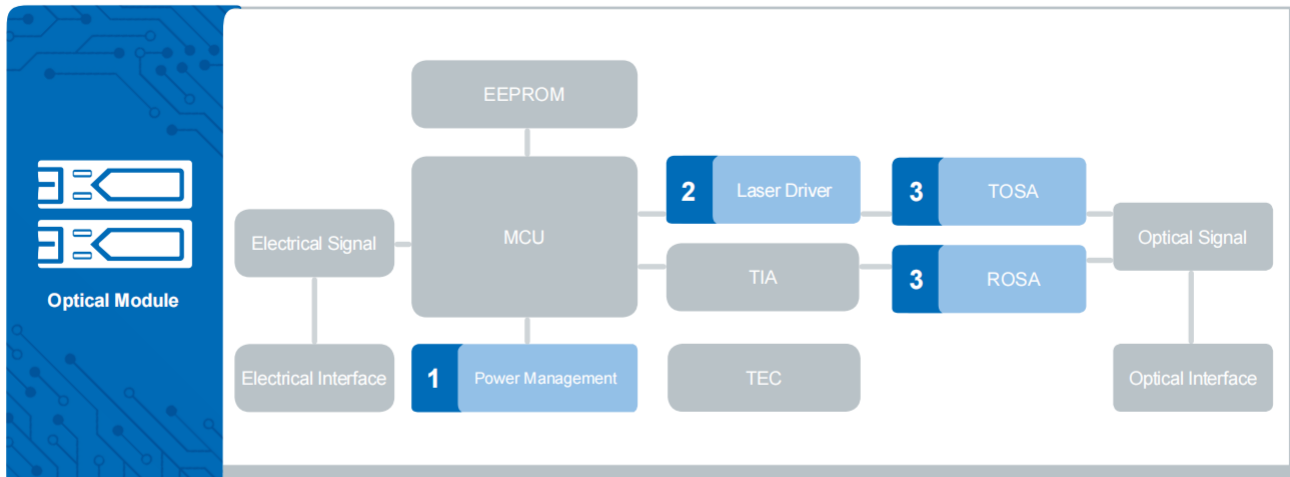
1	RF Circuit	
	Wire Wound Chip Ceramic Inductor / MWSD - C Series	MWSD - C
	Wire Wound Chip Ceramic Inductor / SDWL - C Series	SDWL - C
	Multilayer Chip High Q Inductor / HQ Series	HQ
	Multilayer Chip Ceramic Inductor / SDCL Series	SDCL
	Multilayer Chip LC Fitter / SLFB Series	SLFB
	Multilayer Chip Balun / SLBL Series	SLBL
	Multilayer Chip LC Coupler / SLCP Series	SLCP
	Dielectric Waveguide Filter / VFCD & VFCD Series	VFCD / VFCD
2	CPRI Data Processing Unit	
	Multilayer Chip Ferrite Inductor / SDFL Series	SDFL
	Wire Wound Chip Ferrite Inductor / SDWL - FW Series	SDWL - FW
	Multilayer Chip Ferrite Bead / GZ & PZ & UPZ & EPZ Series	GZ / PZ / UPZ / EPZ
	Chip Solid Tantalum Capacitors / TC2 & TC3 Series	TC2 / TC3
3	Base - band Processor	
	Multilayer Chip Ferrite Bead / PZ & UPZ & EPZ Series	PZ / UPZ / EPZ
	Chip Solid Tantalum Capacitors / TC2 & TC3 Series	TC2 / TC3
	Chip NTC Thermistor / SDNT Series	SDNT








4 Clock Generator	
Multilayer Chip Ferrite Bead / SZ Series	 SZ
5 / 7 / 9 DC - DC Converter	
Wire Wound SMD Power Inductor / SWPA & SPH & WPN Series	 SWPA / SPH / WPN
Multilayer Chip Ferrite Bead / PZ & UPZ & EPZ Series	 PZ / UPZ / EPZ
Power Inductor / IMWR Series	 IMWR
Multilayer Chip Varistor for Voltage surge Suppression / SDVL - HS Series	 SDVL - HS
Chip Solid Tantalum Capacitors / TC2 & TC3 Series	 TC2 / TC3
Chip NTC Thermistor / SDNT Series	 SDNT
Molded Inductor / WT Series	 WT
Assembled SMD Power Inductors / WPZ Series	 WPZ
6 PoE Power Supply	
Wire Wound Electronic Transformer / TWPEP Series	 TWPEP
LAN Transformer / TWSHI Series	 TWSHI
Wire Wound Common Mode Choke / SDCW Series	 SDCW
Multilayer Chip Varistor for Voltage Surge Suppression / SDVL - HS Series	 SDVL - HS
8 / 10 AC / DC Converter	
Wire Wound Electronic Transformer / TWP Series	 TWP
Chip NTC Thermistor / SDNT Series	 SDNT
Multilayer Chip Varistor for Voltage Surge Suppression / SDVL - HS Series	 SDVL - HS



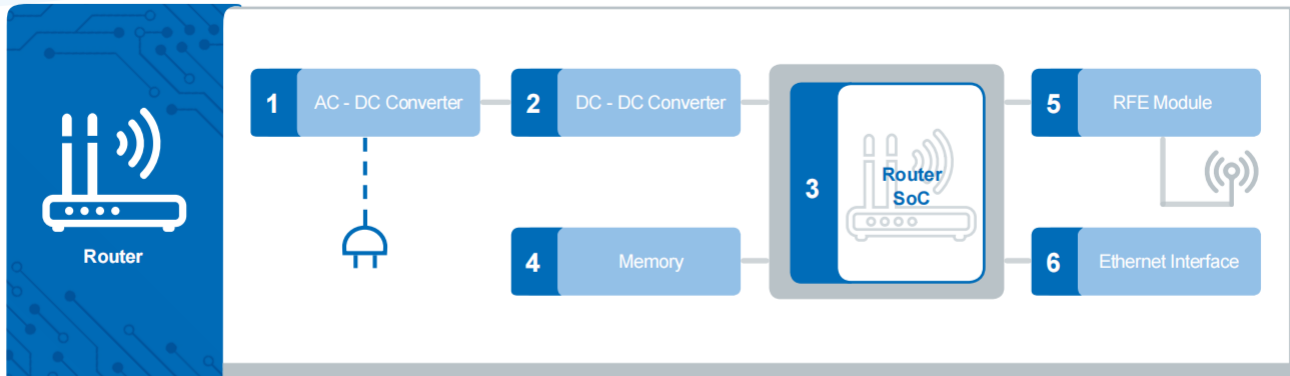
1 Optical Transceiver Module	
Wire Wound SMD Power Inductor / SWPA & SPH & WPN Series	SWPA / SPH / WPN
Multilayer Chip Power Inductor / MPH Series	MPH
Molded SMD Power Inductor / MWTC Series	MWTC
Molded SMD Power Inductor / MWSA - S & MWLA - S Series	MWSA - S MWLA - S
Multilayer Chip Ceramic Inductor / SDCL Series	SDCL
Wire Wound Chip Ceramic Inductor / MWSD - C Series	MWSD - C
Multilayer Chip Ferrite Bead / GZ & SZ & PZ & UPZ Series	GZ / SZ / PZ / UPZ
Chip NTC Thermistor / SDNT Series	SDNT
2 ONU SoC	
Multilayer Chip Ferrite Bead / GZ & SZ & HZ Series	GZ / SZ / HZ
Chip NTC Thermistor / SDNT Series	SDNT
3 Ether PHY	
Multilayer Chip Varistor / SDV Series	SDV
Wire Wound Chip Common Mode Choke Coil / SDCW Series	SDCW
Multilayer Chip Ferrite Bead / GZ & SZ & HZ Series	GZ / SZ / HZ
4 DC - DC Converter	
Wire Wound SMD Power Inductor / SWPA & SPH & WPN Series	SWPA / SPH / WPN
Multilayer Chip Power Inductor / MPH Series	MPH
Molded SMD Power Inductor / MWTC Series	MWTC
Molded SMD Power Inductor / MWSA - S & MWLA - S Series	MWSA - S MWLA - S

# Optical Module



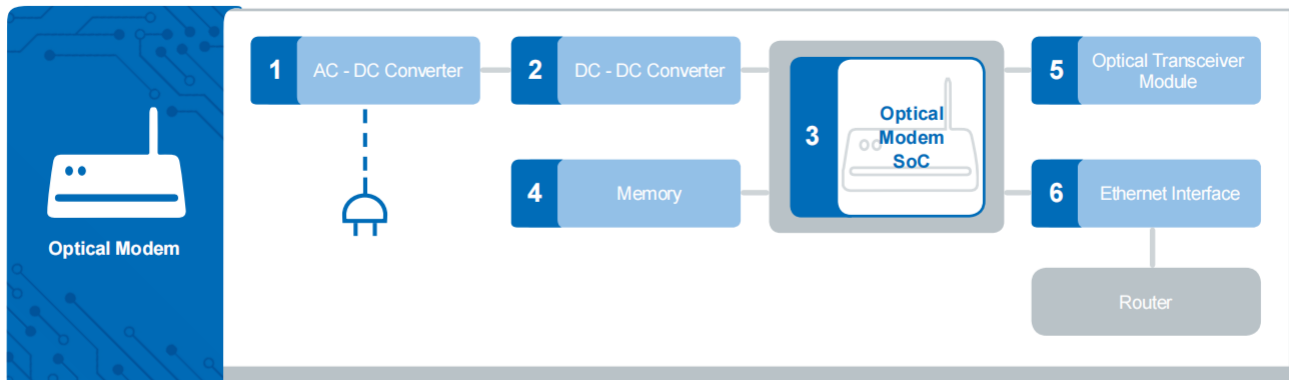
1	Power Management	
	Wire Wound SMD Power Inductor / WPN Series	 WPN
	Molded SMD Power Inductor / MWTC Series	 MWTC
	Multilayer Chip Ferrite Bead / HPZ Series	 HPZ
2	Laser Driver	
	Wire Wound Chip Ceramic Inductor / MWSD - C Series	 MWSD - C
	Multilayer Chip Power Inductor / MCL Series	 MCL
	Multilayer Chip Ferrite High Frequency Bead / MZOH Series	 MZOH
3	TOSA & ROSA	
	Leadless NTC Thermistor / SDNC Series	 SDNC

# Router



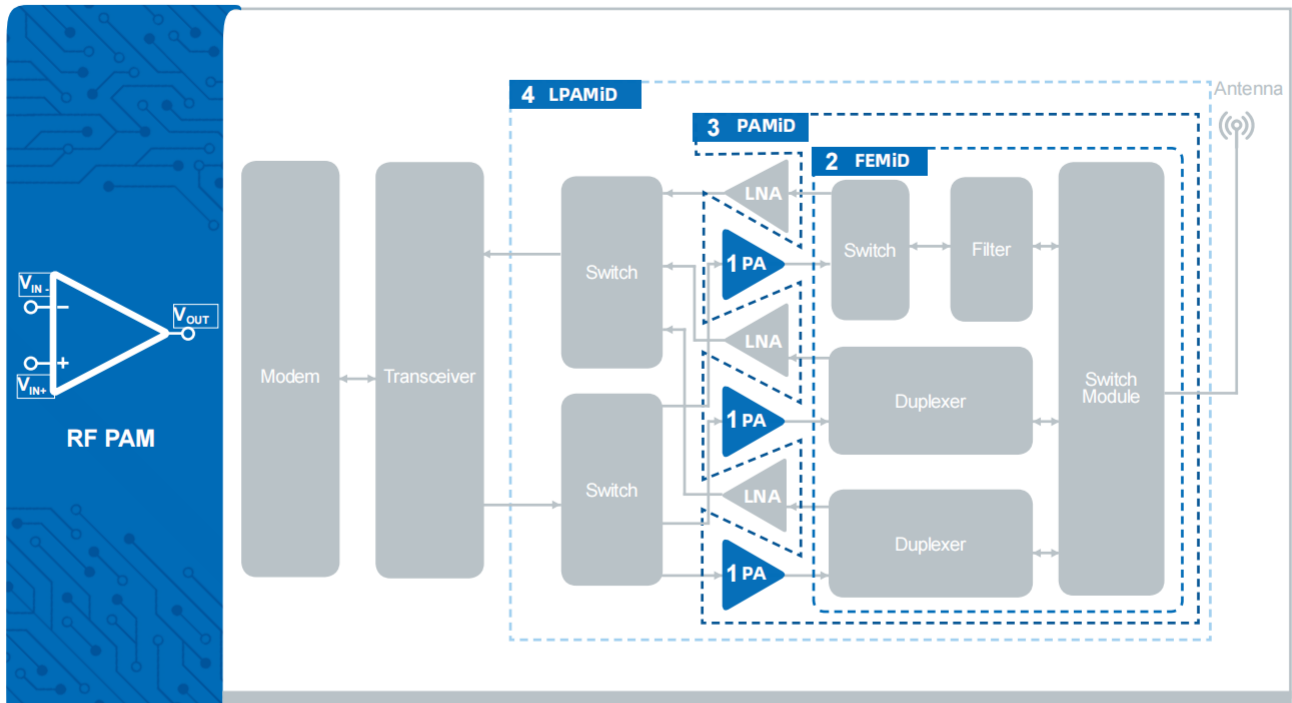
1 AC - DC Converter	
Wire Wound Electronic Transformer / TWP Series	TWP
Chip NTC Thermistor / SDNT Series	SDNT
2 DC - DC Converter	
Wire Wound SMD Power Inductors / SWPA Series	SWPA
Wire Wound SMD Power Inductors / WPN Series	WPN
Wire Wound SMD Power Inductors / SPH Series	SPH
Mini Molded Chip Power Inductors / MWTC Series	MWTC
3 Router SoC	
Chip NTC Thermistor / SDNT Series	SDNT
Multilayer Chip Ferrite Bead / SZ & SZ - C & HZ & HPZ Series	SZ / SZ - C / HZ / HPZ
4 Memory	
Multilayer Chip Ferrite Bead / GZ & PZ & UPZ Series	GZ / PZ / UPZ
5 Wi - Fi Module	
Multilayer Chip Ceramic Inductor / SDCL Series	SDCL
Wire Wound Chip Ceramic Inductor MWSD - C Series	MWSD - C
Multilayer Chip High Q Inductor / HQ Series	HQ
Multilayer Chip Coupler / SLCP Series	SLCP
Multilayer Chip Balun / SLBL Series	SLBL
Multilayer Chip LC Fitter / SLFB & SLFL Series	SLFB / SLFL
Multilayer Chip Diplexer / SLFD Series	SLFD
6 Ethernet Interface	
Multilayer Chip Varistor / SDV Series	SDV
Multilayer Chip Common Mode Filter / SDMM Series	SDMM
Autotransformer / CWS Series	CWS

# Optical Modem



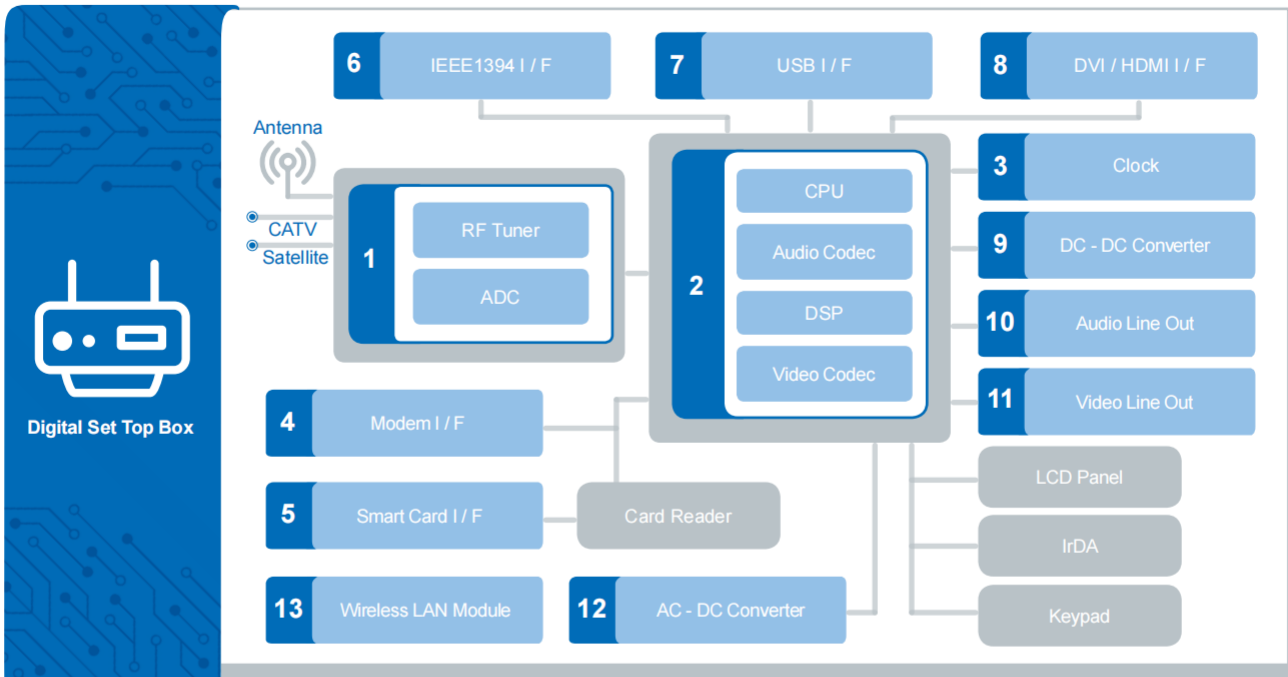
1	AC - DC Converter	
	Wire Wound Electronic Transformer / TWP Series	TWP
	Chip NTC Thermistor / SDNT Series	SDNT
2	DC - DC Converter	
	Wire Wound SMD Power Inductors / SWPA Series	SWPA
	Wire Wound SMD Power Inductors / WPN Series	WPN
	Wire Wound SMD Power Inductors / SPH Series	SPH
	Mini Molded Chip Power Inductors / MWTC Series	MWTC
3	Router SoC	
	Chip NTC Thermistor / SDNT Series	SDNT
	Multilayer Chip Ferrite Bead / SZ & SZ - C & HZ & HPZ Series	SZ / SZ - C / HZ / HPZ
4	Memory	
	Multilayer Chip Ferrite Bead / GZ & PZ & UPZ Series	GZ / PZ / UPZ
5	Optical Transceiver Module	
	Chip NTC Thermistor / SDNT Series	SDNT
	Multilayer Chip Ceramic Inductor / SDCL Series	SDCL
	Wire Wound Chip Ceramic Inductor MWSD - C Series	MWSD - C
	Multilayer Chip High Q Inductor / HQ Series	HQ
	Wire Wound SMD Power Inductor / SWPA & SPH & WPN Series	SWPA / SPH / WPN
	Mini Molded Chip Power Inductors / MWTC Series	MWTC
	Multilayer Chip Ferrite High Frequency Bead / MZOH Series	MZOH
	Leadless NTC Thermistor / SDNC Series	SDNC
6	Ethernet Interface	
	Multilayer Chip Varistor / SDV Series	SDV
	Multilayer Chip Common Mode Filter / SDMM Series	SDMM
	Autotransformer / CWS Series	CWS































1	PA	
	Multilayer Chip Ceramic Inductor / SDCL Series	SDCL
	The Film RF Inductor / HQ & UHQ Series	HQ / UHQ
2	FEMiD	
	Multilayer Chip Ceramic Inductor / SDCL Series	SDCL
	The Film RF Inductor / HQ & UHQ Series	HQ / UHQ
	Multilayer Chip LC Fitter / SLFB Series	SLFB
3	PAMiD	
	Multilayer Chip Ceramic Inductor / SDCL Series	SDCL
	The Film RF Inductor / HQ & UHQ Series	HQ / UHQ
	Multilayer Chip LC Fitter / SLFB Series	SLFB
4	LPAMiD	
	Multilayer Chip Ceramic Inductor / SDCL Series	SDCL
	The Film RF Inductor / HQ & UHQ Series	HQ / UHQ
	Multilayer Chip LC Fitter / SLFB Series	SLFB

# Digital Set Top Box




1	RF Tuner / ADC	
Multilayer Chip Ceramic Inductor / SDCL Series		SDCL
Wire Wound Chip Ceramic Inductor / MWSD & SDWL - C Series		MWSD / SDWL - C
Multilayer Chip Ferriter Inductor / SDFL Series		SDFL
Multilayer Chip Ferrite Bead / GZ & SZ & PZ & UPZ Series		GZ / SZ / PZ / UPZ
Multilayer Chip LC Filter / SLFB & SLFL Series		SLFB / SLFL
Multilayer Chip Inductor for Choke / MCL Series		MCL
Wire Wound Chip Balun Transformer / BW Series		BW
Multilayer Chip High Q Inductor / HQ Series		HQ
2	CPU DSP / Audio Codec / Video Codec	
Multilayer Chip Ferrite Inductor / SDFL Series		SDFL
Wire Wound SMD Power Inductor / SWPA & SPH Series		SWPA / SPH
Multilayer Chip Ferrite Bead / GZ & SZ & PZ & UPZ Series		GZ / SZ / PZ / UPZ
Multilayer Chip Power Inductor / MPH Series		MPH
Chip Solid Tantalum Capacitors / TC2 & TC3 Series		TC2 / TC3
3	Clock	
Multilayer Chip Ferrite Bead / SZ Series		SZ
4	Modem I / F	
Multilayer Chip Ferrite Bead / PZ & UPZ Series		PZ / UPZ
Multilayer Chip Varistor / SDV Series		SDV
Multilayer Chip Varistor for Voltage surge Suppression / SDVL - HS Series		SDVL - HS
PULSE Transformer / ALTW Series		ALTW

<b>5</b>	<b>Smart Card I / F</b>	
Multilayer Chip Ferrite Bead / SZ & PZ & UPZ Series		SZ / PZ / UPZ
<b>6 / 7</b>	<b>IEEE1394 USB I / F</b>	
Wire Wound Chip Common Mode Choke Coil / SDCW Series		SDCW
Multilayer Chip Varistor / SDV Series		SDV
Multilayer Chip Ferrite Bead / PZ & UPZ Series		PZ / UPZ
Multilayer Chip Common Mode Filter / SDMM Series		SDMM
<b>8</b>	<b>DVI / HDcMI</b>	
Wire Wound Chip Common Mode Choke Coil / SDCW - H Series		SDCW - H
Multilayer Chip Varistor / SDV Series		SDV
<b>9</b>	<b>DC - DC Converter</b>	
Multilayer Chip Ferrite Bead / PZ & UPZ Series		PZ / UPZ
Wire Wound SMD Power Inductor / SWPA & SPH & WPN Series		SWPA / SPH / WPN
Multilayer Chip Power Inductor / MPH Series		MPH
Multilayer Chip Varistor for Voltage surge Suppression / SDVL - HS Series		SDVL - HS
Chip Solid Tantalum Capacitors / TC2 & TC3 Series		TC2 / TC3
<b>10</b>	<b>Audio Line Out</b>	
Multilayer Chip Ferrite Bead / GZ & SZ Series		GZ / SZ
Multilayer Chip Varistor / SDV Series		SDV
<b>11</b>	<b>Video Line Out</b>	
Multilayer Chip Varistor / SDV Series		SDV
Multilayer Chip Ferrite Bead / SZ Series		SZ
<b>12</b>	<b>AC - DC Converter</b>	
Multilayer Chip Varistor for Voltage Surge Suppression / SVMH Series		SVMH
Wire Wound electronic Transformer / TWP Series		TWP
<b>13</b>	<b>Wireless Communication Module</b>	
Multilayer Chip Ceramic Inductor / SDCL Series		SDCL
Wire Wound Chip Ceramic Inductor / MWSD - C Series		MWSD - C
Multilayer Chip High Q Inductor / HQ Series		HQ
Multilayer Chip Ferrite Bead / SZ & HZ Series		SZ / HZ
Multilayer Chip Antenna / SLDA Series		SLDA
Multilayer Chip Balun / SLBL Series		SLBL
Multilayer Chip LC Fitter / SLFB & SLFL Series		SLFB / SLFL
Multilayer Chip Power Inductor / MPH Series		MPH

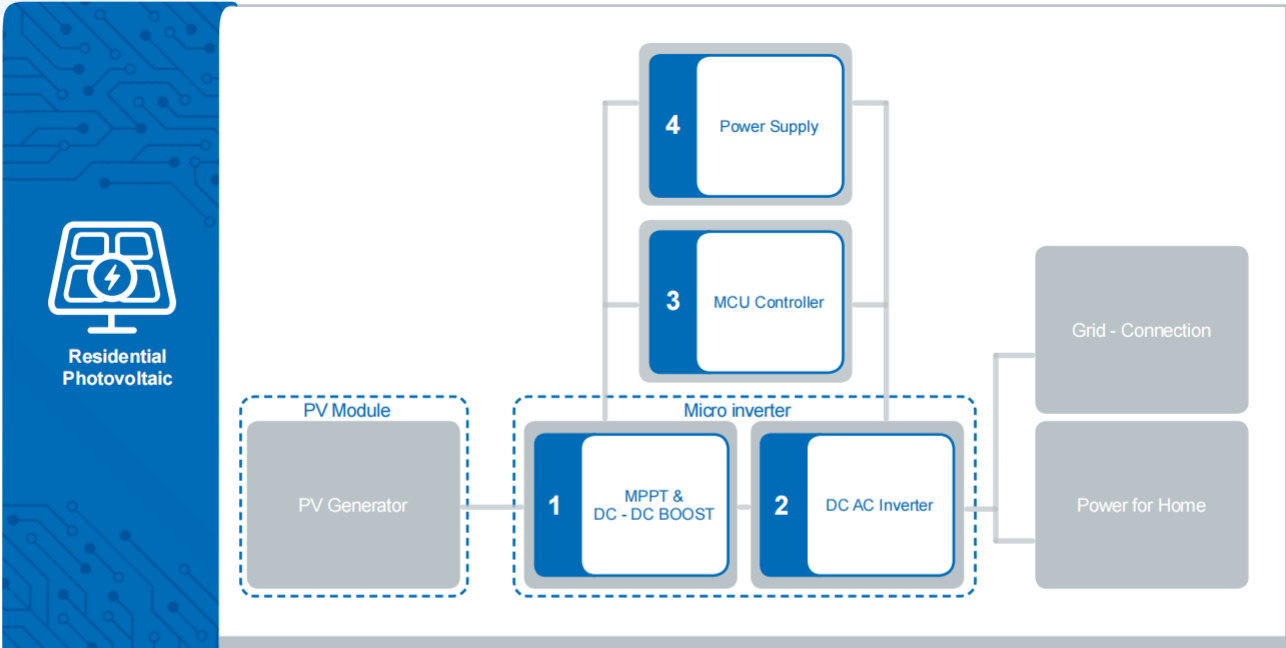




# Sunlord Application Guide

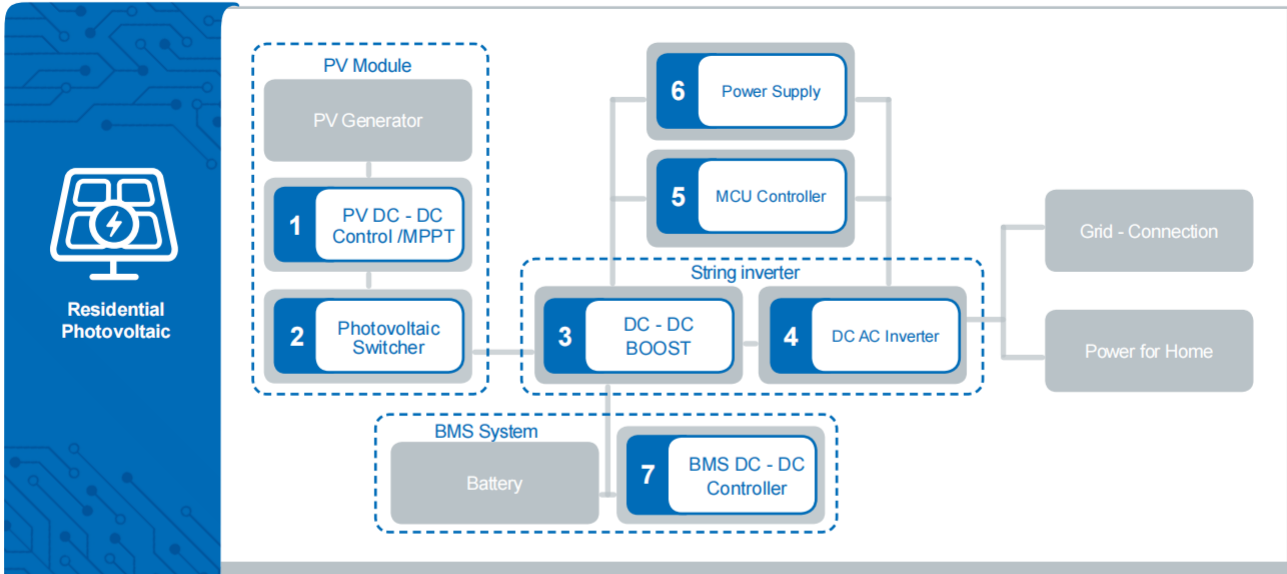
 Industrial & Energy

# Micro Inverter



<b>1</b>	<b>MPPT &amp; DC - DC Boost</b>	
Current Transformer / TWPEE Series		TWPEE
Main Transformer / PQ34 Series		PQ34
<b>2</b>	<b>DC AC Inverter</b>	
Current Transformer / TWPEE Series		TWPEE
CMC Inductor / RCDC Series		RCDC
<b>3</b>	<b>MCU Controller</b>	
Wire Wound Power Inductor / SWPA & SPH & WPN Series		SWPA / SPH / WPN
Molded Power Inductor / MWSA Series		MWSA
Multilayer Chip Ferrite Bead / GZ & PZ & EPZ Series		GZ / PZ / EPZ
<b>4</b>	<b>Power Supply</b>	
Flyback Transformer / TWPEP Series		TWPEP

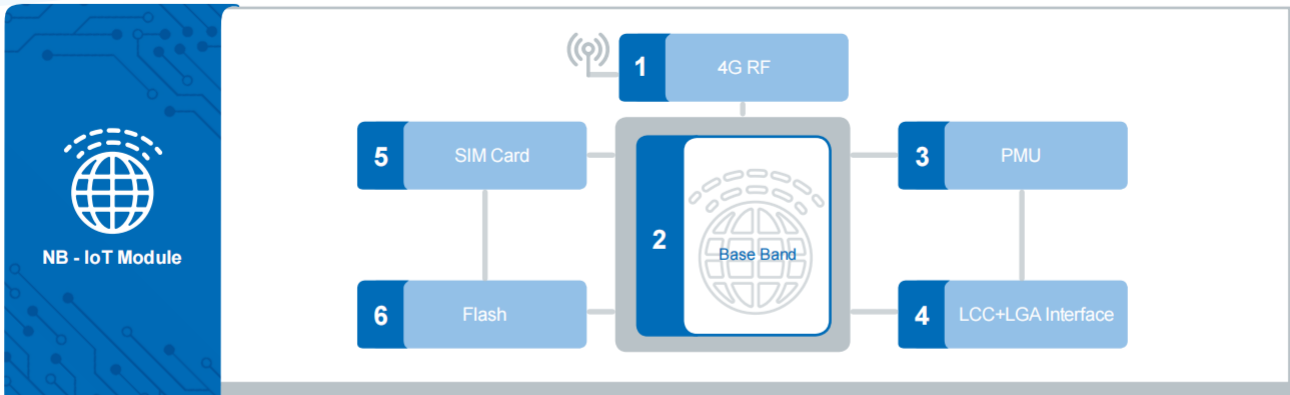
# Integrated Household Machine of Photovoltaic Energy Storage



1	PV DC - DC Control / MPPT	
	Wire Wound SMD Power Inductor / SWPA & SPH & WPN Series	SWPA / SPH / WPN
	Assembled SMD Power Inductor / MWPQ & WPE Series	MWPQ / WPE
	Multi - layer Chip Ferrite Bead / GZ & PZ & EPZ Series	GZ / PZ / EPZ
2	Photovoltaic Switcher	
	Wire Wound SMD Power Inductor / SWPA & SPH & WPN Series	SWPA / SPH / WPN
	Multi - layer Chip Ferrite Bead / GZ & PZ & EPZ Series	GZ / PZ / EPZ
	Multi - layer Chip Ceramic Inductor / SDCL Series	SDCL
3	DC - DC Boost	
	LLC Transformer / EE55 & 65 Series	EE55 / 65
	PCB Planer Transformer / ER Series	ER60
	Glued Inductor / Customization	
4	DC AC Inverter	
	Gate Drive Transformer / TWPEP Series	TWPEP
	CMC Inductor / RCDC Series	RCDC
5	MCU Controller	
	Wire Wound Power Inductor / SWPA & SPH & WPN Series	SWPA / SPH / WPN
	Molded Power Inductor / MWSA Series	MWSA
	Multilayer Chip Ferrite Bead / GZ & PZ & EPZ Series	GZ / PZ / EPZ
6	Power Supply	
	Auxiliary Transformer / TWPEP & EE Series	TWPEP / EE
7	BMS DC - DC Controller	
	Isolated Transformer / ALTWR - F Series	ALTWR - F
	Isolated Transformer / ALTW - C Series	ALTW - C
	Power Transformer / ATWPEP Series	ATWPEP
	Power Inductor / ASWPA & AMWPH Series	ASWPA / AMWPH
	Molding Power Inductor / AMP Series	AMP
	Common Mode Choke / AMCW Series	AMCW

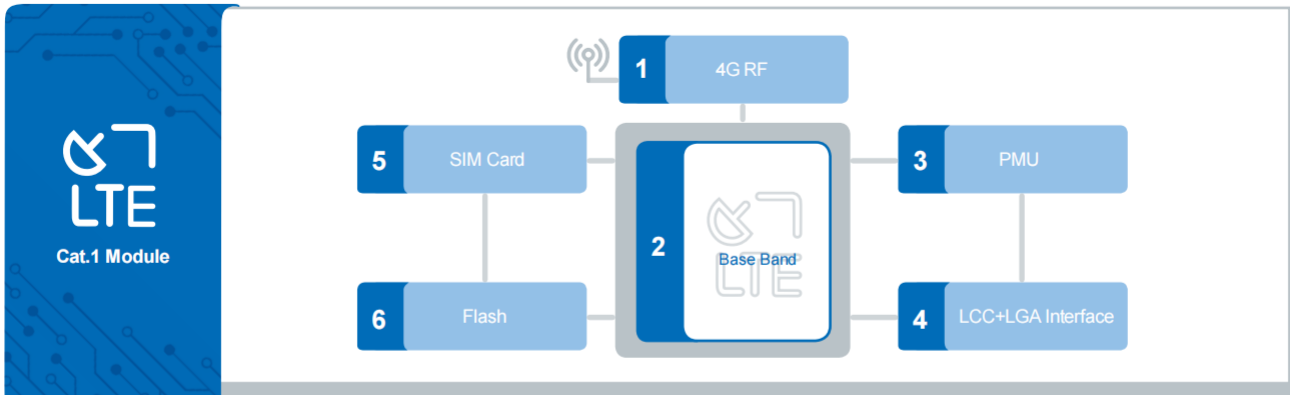


# NB - IoT Module



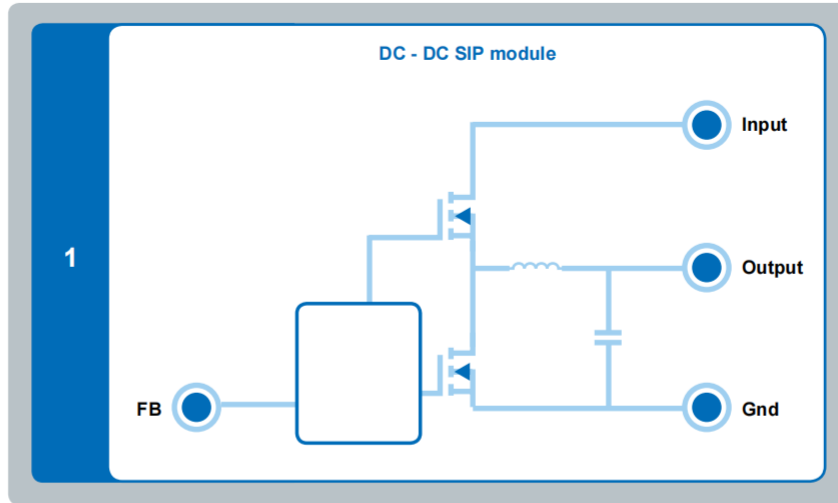
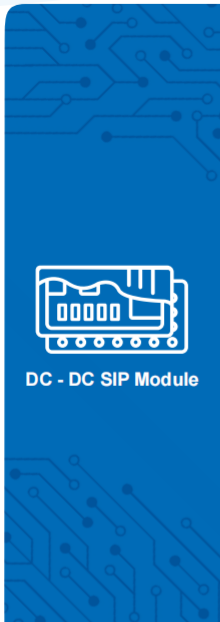
1	4G RF	
Multilayer Chip Ceramic Inductor / SDCL Series		SDCL
The Film RF Inductor HQ & UHQ Series		HQ / UHQ
Multilayer Chip LC Fitter / SLFB & SLFL Series		SLFB / SLFL
Multilayer Chip Balun / SLBL Series		SLBL
2	Base Band	
Multilayer Chip Ferrite Bead / SZ & HZ & HPZ Series		SZ / HZ / HPZ
3	PMU	
Multilayer Chip Ferrite Bead / PZ & UPZ & EPZ Series		PZ / UPZ / EPZ
Multilayer Chip Power Inductor / MPH Series		MPH
Wire Wound SMD Power Inductors / SWPA & SPH & WPN & WPG Series		SWPA / SPH / WPN / WPG
Mini Molded Chip Power Inductors / MWTC Series		MWTC



# Cat.1 Module



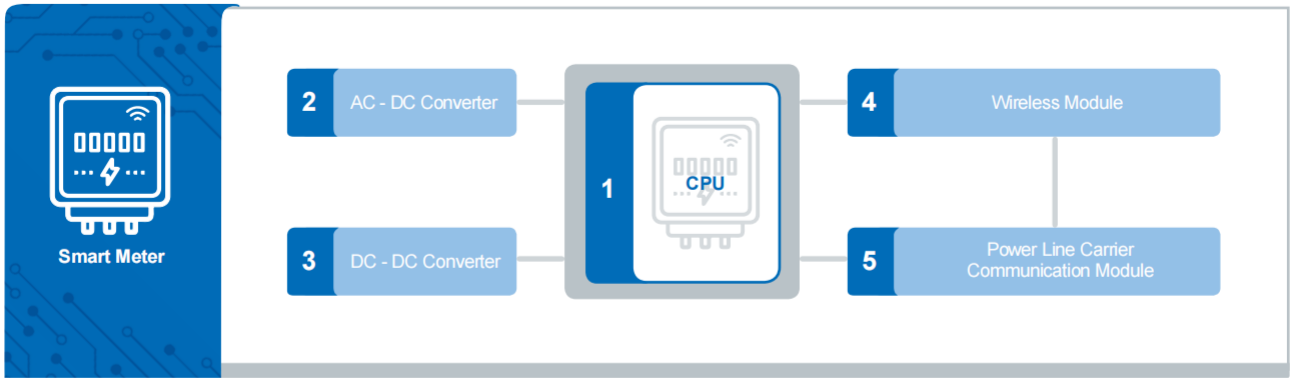
1	4G RF	
	Multilayer Chip Ceramic Inductor / SDCL Series	SDCL
	The Film RF Inductor / HQ Series	HQ
	Multilayer Chip LC Fitter / SLFB & SLFL Series	SLFB / SLFL
2	Base Band	
	Multilayer Chip Ferrite Bead / SZ & HZ & HPZ Series	SZ / HZ / HPZ
3	PMU	
	Multilayer Chip Ferrite Bead / PZ & UPZ & EPZ Series	PZ / UPZ / EPZ
	Multilayer Chip Power Inductor / MPH Series	MPH
	Wire Wound SMD Power Inductors / SWPA & SPH & WPN & WPG Series	SWPA / SPH / WPN / WPG
	Mini Molded Chip Power Inductors / MWTC Series	MWTC














# DC - DC SIP Module



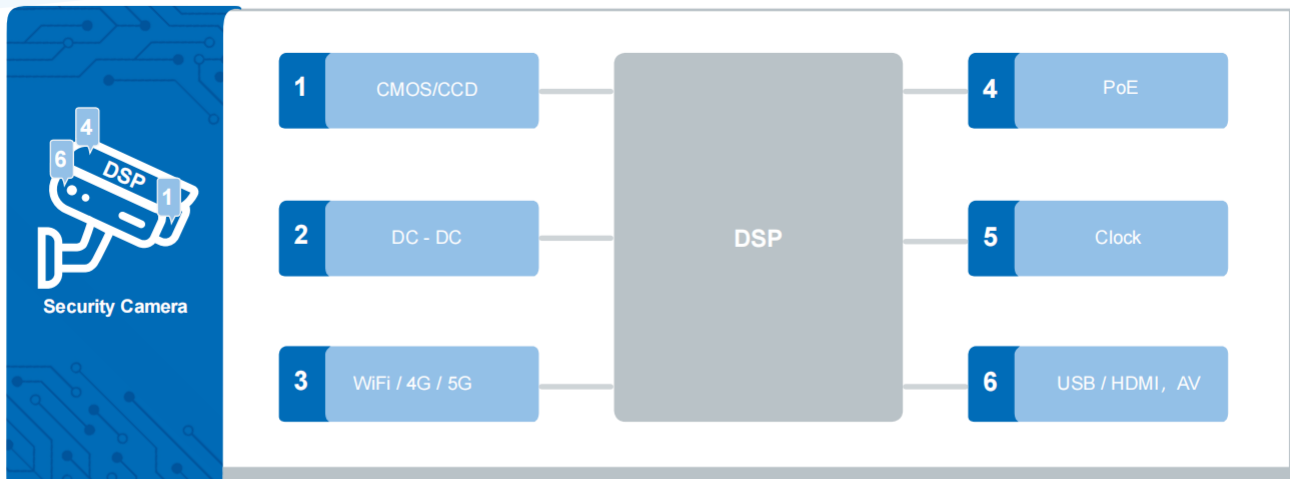
1 DC - DC SIP Module	
Multilayer Chip Power Inductor / MPH Series	 MPH
Wire Wound Molded SMD Power Inductors / WT Series	 WT

# Smart Meter



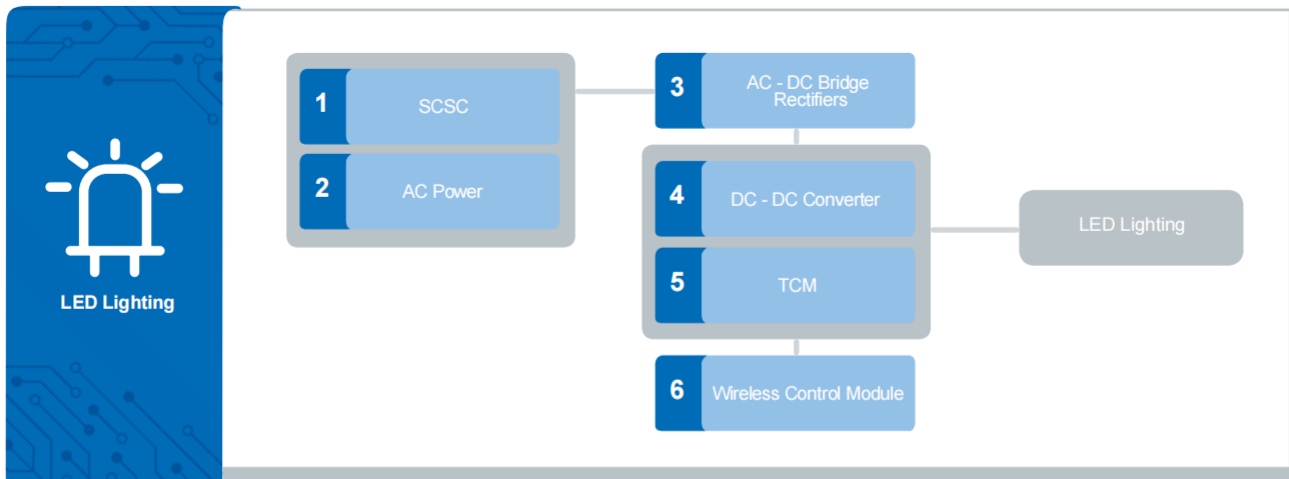
1	CPU	
	Multilayer Chip Ferrite Bead / SZ & HZ & UPZ Series	 SZ / HZ / UPZ
	Chip Solid Tantalum Capacitors / TC2 & TC3 Series	 TC2 / TC3
2	AC - DC Converter	
	Wire Wound Electronic Transformer / TWP Series	 TWP
	Multilayer Chip Ferrite Bead / PZ & UPZ & EPZ Series	 PZ / UPZ / EPZ
3	DC - DC Converter	
	Wire Wound SMD Power Inductor / SWPA & SPH & WPN Series	 SWPA / SPH / WPN
	Chip Solid Tantalum Capacitors / TC2 & TC3 Series	 TC2 / TC3
	Multilayer Chip Ferrite Bead / PZ & UPZ & EPZ Series	 PZ / UPZ / EPZ
4	Wireless Module	
	Wire Wound Chip Ceramic Inductor / SDWL - C Series	 SDWL - C
	Multilayer Chip Ceramic Inductor / SDCL Series	 SDCL
	Multilayer Chip LC Filter / SLFB & SLFL Series	 SLFB / SLFL
	Multilayer Chip High Q Inductor / HQ Series	 HQ
5	Power Line Carrier Communication Module	
	Multilayer Chip Ferrite Inductor / SDFL Series	 SDFL
	Electronic Transformer / TWPEP Series	 TWPEP

# Security Camera



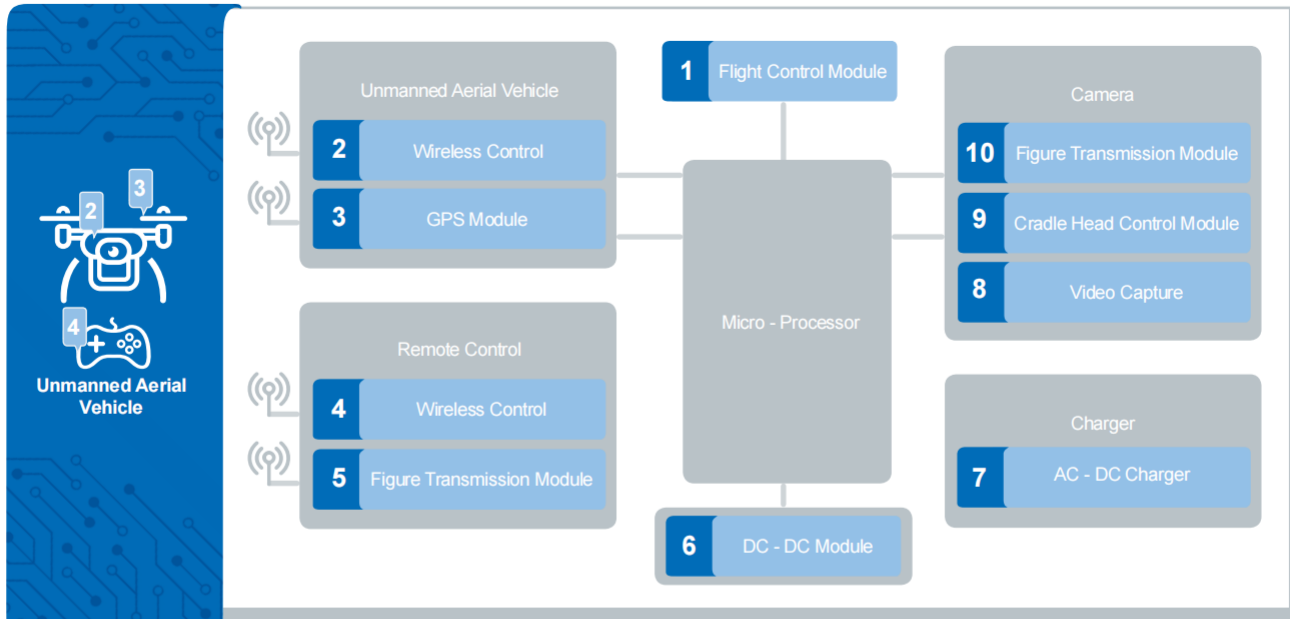
<b>1</b>	CMOS / CCD	
	Multilayer Chip Ferrite Bead / PZ & UPZ Series	PZ / UPZ
	Multilayer Chip Varistor / SDV Series	SDV
<b>2</b>	DC - DC	
	Multilayer Chip Ferrite Bead / PZ & UPZ & EPZ Series	PZ / UPZ / EPZ
	Wire Wound SMD Power Inductor / SWPA & SPH & WPN Series	SWPA / SPH / WPN
<b>3</b>	WiFi / 3G / 4G	
	Multilayer Chip Ceramic Inductor / SDCL Series	SDCL
	Multilayer Chip Antenna / SLDA Series	SLDA
	Multilayer Chip LC Filter / SLFB & SLFL Series	SLFB / SLFL
	Multilayer Chip Balun Filter / SLBL Series	SLBL
	Multilayer Chip High Q Inductor / HQ Series	HQ
<b>4</b>	PoE	
	Multilayer Chip Varistor for Voltage Surge Suppression / SDVL-HS Series	SDVL - HS
<b>5</b>	Clock	
	Multilayer Chip Ferrite Bead / SZ Series	SZ
<b>6</b>	USB / HDMI, AV	
	Multilayer Chip Ferrite Bead / PZ & UPZ Series	PZ / UPZ
	Wire Wound Chip Common Mode Choke Coil / SDCW Series	SDCW
	Multilayer Chip Varistor / SDV Series	SDV















# LED Lighting































1 / 2 / 3	Surge Current Suppression Circuit / AC Power / AC - DC Bridge Rectifiers	
	Multilayer Chip Varistor for Voltage Surge Suppression / SDVL - HS & SVMH Series	SDVL - HS / SVMH
	Wire Wound Electronic Transformer / TWP Series	TWP
	Wire Wound SMD Power Inductor / SWPA & SPH & WPN Series	SWPA / SPH / WPN
4	DC - DC Converter	
	Multilayer Chip Ferrite Bead / PZ & UPZ & EPZ Series	PZ / UPZ / EPZ
	Wire Wound SMD Power Inductor / SWPA & SPH & WPN Series	SWPA / SPH / WPN
	Multilayer Chip Varistor for Voltage Surge Suppression / SDVL - HS Series	SDVL - HS
	Chip Solid Tantalum Capacitors / TC2 & TC3 Series	TC2 / TC3
5	Temperature Compensation Module	
	Chip Temp. Sensing NTC Thermistor / SDNT Series	SDNT
6	Wireless Control Module	
	Multilayer Chip Ceramic Inductor / SDCL Series	SDCL
	Wire Wound Chip Ceramic Inductor / MWSD - C Series	MWSD - C
	Multilayer Chip Antenna / SLDA Series	SLDA
	Multilayer Chip LC Filter / SLFB & SLFL Series	SLFB / SLFL

# Unmanned Aerial Vehicle

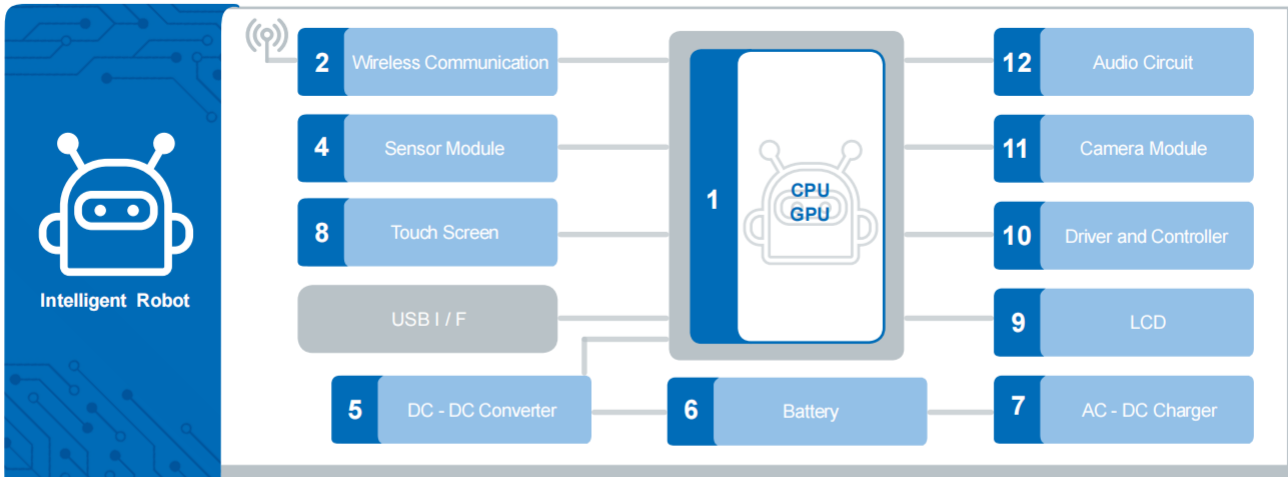






















1 Flight Control Module	
Molding Power Inductor / MWTC & WT Series	 MWTC / WT
Wire Wound SMD Power Inductor / SWPA & SPH & WPN Series	 SWPA / SPH / WPN
Multilayer Chip Ferrite Bead / HZ & HPZ Series	 HZ / HPZ
2 Machine Body Wireless Control	
Multilayer Chip Ceramic Inductor / SDCL Series	 SDCL
Wire Wound Chip Ceramic Inductor / SDWL - C & MWSD - C Series	 SDWL - C  MWSD - C
Multilayer Chip LC Filter / SLFB & SLFL Series	 SLFB / SLFL
Multilayer Chip Diplexer / SLFD Series	 SLFD
Multilayer Chip Antenna / SLDA Series	 SLDA
3 GPS Module	
Multilayer Chip Ferrite Bead / SZ & HZ & HPZ Series	 SZ / HZ / HPZ
Multilayer Chip Common Mode Filter / SDMM Series	 SDMM
Wire Wound Chip Ceramic Inductor / SDWL - C & MWSD - C Series	 SDWL - C  MWSD - C
Multilayer Chip Ceramic Inductor / SDCL Series	 SDCL







4 Remote Control Wireless Control	
Multilayer Chip Ferrite Bead / SZ & HZ & PZ & UPZ Series	 SZ / HZ / PZ / UPZ
Molding Power inductor / MWTC & WT Series	 MWTC / WT
Multilayer Chip Ceramic Inductor / SDCL Series	 SDCL
Multilayer Chip LC Filter / SLFB & SLFL Series	 SLFB / SLFL
Multilayer Chip Diplexer / SLFD Series	 SLFD
Multilayer Chip Antenna / SLDA Series	 SLDA
5 Figure Transmission Module	
Multilayer Chip Ceramic Inductor / SDCL Series	 SDCL
Wire Wound SMD Power Inductor / SWPA & SPH & WPN Series	 SWPA / SPH / WPN
Multilayer Chip LC Filter / SLFB & SLFL Series	 SLFB / SLFL
Multilayer Chip Diplexer / SLFD Series	 SLFD
6 DC - DC Module	
Wire Wound SMD Power Inductor / SWPA & SPH & WPN Series	 SWPA / SPH / WPN
Molding Power Inductor / MWTC & WT Series	 MWTC / WT
Chip Solid Tantalum Capacitors / TC2 & TC3 Series	 TC2 / TC3
Multilayer Chip Ferrite Bead / PZ & UPZ & EPZ Series	 PZ / UPZ / EPZ
Multilayer Chip Varistor for Surge Current Suppression / SDVL - HS Series	 SDVL - HS
7 AC - DC Charger	
Planar Electronic Transformer / TPP Series	 TPP
8 Video Capture	
Multilayer Chip Ferrite Bead / SZ & HZ & PZ & UPZ Series	 SZ / HZ / PZ / UPZ
Molding Power Inductor / MWTC & WT Series	 MWTC / WT
Wire Wound SMD Power Inductor / SWPA & SPH & WPN Series	 SWPA / SPH / WPN
9 Cradle Head Control Module	
Multilayer Chip Ferrite Bead / SZ & HZ & PZ & UPZ Series	 SZ / HZ / PZ / UPZ
Multilayer Chip Ceramic Inductor / SDCL Series	 SDCL
Wire Wound Chip Ceramic Inductor / SDWL - C & MWSD - C Series	 SDWL - C  MWSD - C
10 Figure Transmission Module	
Multilayer Chip Ferrite Bead / SZ & HZ & PZ & UPZ Series	 SZ / HZ / PZ / UPZ
Molding Power Inductor / MWTC & WT Series	 MWTC / WT
Wire Wound SMD Power Inductor / SWPA & SPH & WPN Series	 SWPA / SPH / WPN
Multilayer Chip Ceramic Inductor / SDCL Series	 SDCL
Multilayer Chip LC Filter / SLFB & SLFL Series	 SLFB / SLFL



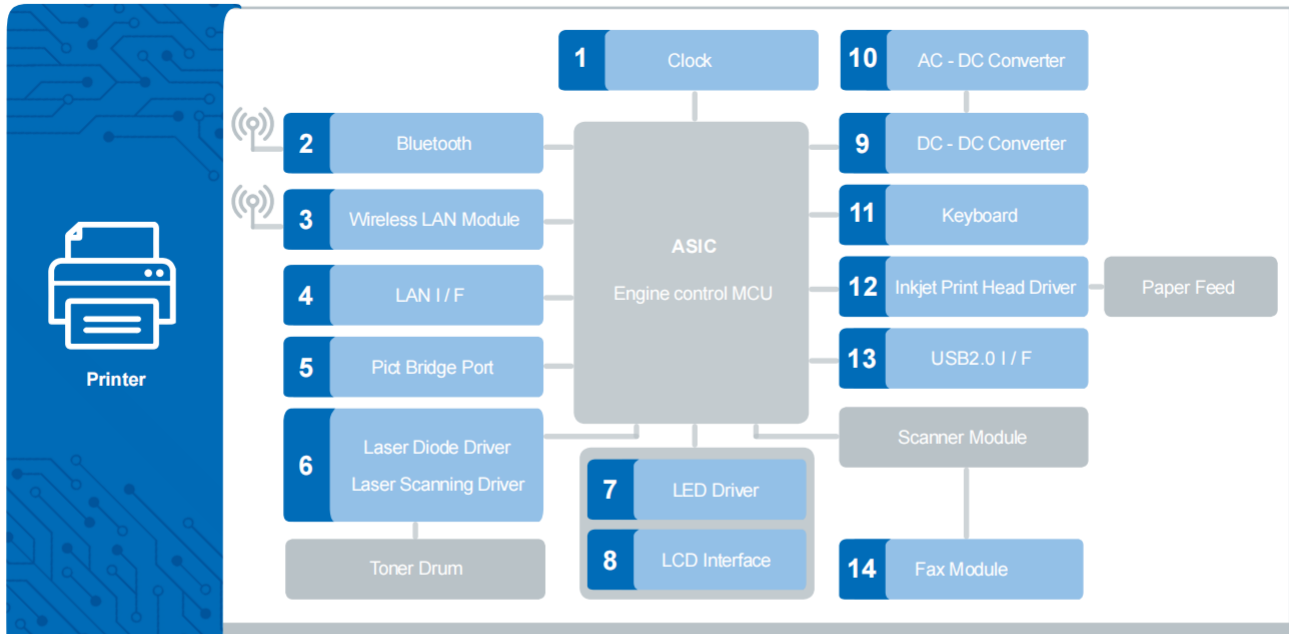
# Intelligent Robot



<b>1</b>	<b>CPU</b>	
	Multilayer Chip Ferrite Bead / SZ & HZ & HPZ Series	 SZ / HZ / HPZ
<b>2</b>	<b>Wireless Communication Module</b>	
	Multilayer Chip Ceramic Inductor / SDCL Series	 SDCL
	Wire Wound Chip Ceramic Inductor / SDWL - C & MWSD - C Series	 SDWL - C  MWSD - C
	Multilayer Chip High Q Inductor / HQ & UHQ Series	 HQ / UHQ
	Multilayer Chip Ferrite Bead / SZ & HZ Series	 SZ / HZ
	Multilayer Chip Antenna / SLDA Series	 SLDA
	Multilayer Chip Balun / SLBL Series	 SLBL
	Multilayer Chip LC Filter / SLFB & SLFL Series	 SLFB  SLFL
	Multilayer Chip Power Inductor / MPH Series	 MPH
<b>4</b>	<b>Sensor Module</b>	
	Multilayer Chip Ferrite Bead / GZ & SZ & PZ Series	 GZ / SZ / PZ
	Wire Wound SMD Power Inductor / SWPA & SPH & WPN Series	 SWPA / SPH / WPN
	Multilayer Chip Power Inductor / MPH Series	 MPH
<b>5</b>	<b>DC - DC Converter</b>	
	Multilayer Chip Ferrite Bead / PZ & UPZ & EPZ Series	 PZ / UPZ / EPZ
	Wire Wound SMD Power Inductor / SWPA & SPH & WPN Series	 SWPA / SPH / WPN
	Multilayer Chip Inductor for Choke / MCL Series	 MCL
	Multilayer Chip Power Inductor / MPH Series	 MPH
	Multilayer Chip Varistor for Surge Current Suppression / SDVL - HS Series	 SDVL - HS
	Chip Solid Tantalum Capacitors / TC2 & TC3 Series	 TC2 / TC3

6 Battery	
Chip Temp. Sensing NTC Thermistor / SDNT Series	 SDNT
Multilayer Chip Ferrite Bead / PZ & UPZ & EPZ Series	 PZ / UPZ / EPZ
Multilayer Chip Varistor / SDV Series	 SDV
7 AC - DC Changer	
Multilayer Chip Varistor for Surge Current Suppression / SDVL - HS Series	 SDVL - HS
High Voltage Multilayer Chip Varistor for Surge Suppression / SVMH Series	 SVMH
Multilayer Chip Ferrite Bead / PZ & UPZ & EPZ Series	 PZ / UPZ / EPZ
Multilayer Chip Inductor for Choke / MCL Series	 MCL
Multilayer Chip Power Inductor / MPH Series	 MPH
Wire Wound Electronic Transformer / TWP Series	 TWP
Planar Electronic Transformer / TPP Series	 TPP
8 / 9 Touch Screen / LCD	
Multilayer Chip Varistor / SDV Series	 SDV
Multilayer Chip Ferrite Bead / SZ & HZ & PZ & UPZ & EPZ Series	 SZ / HZ / PZ / UPZ / EPZ
Wire Wound Chip Common Mode Choke Coil / SDCW Series	 SDCW
Wire Wound SMD Power Inductor / SWPA & SPH & WPN Series	 SWPA / SPH / WPN
Multilayer Chip Common Mode Filter / SDMM Series	 SDMM
10 Driver and Controller	
Chip Temp. Sensing NTC Thermistor / SDNT Series	 SDNT
Multilayer Chip Ferrite Bead / PZ & UPZ & EPZ Series	 PZ / UPZ / EPZ
11 Camera Module	
Multilayer Chip Ferrite Bead / PZ & UPZ & EPZ Series	 PZ / UPZ / EPZ
Multilayer Chip Varistor / SDV Series	 SDV
Multilayer Chip Common Mode Filter / SDMM Series	 SDMM
Multilayer Chip Power Inductor / MPH Series	 MPH
12 Audio	
Multilayer Chip Ferrite Bead / SZ & HZ Series	 SZ / HZ
Multilayer Chip Varistor / SDV Series	 SDV
Chip Solid Tantalum Capacitors / TC2 & TC3 Series	 TC2 / TC3
Multilayer Chip Audio Bead / MZAS Series	 MZAS

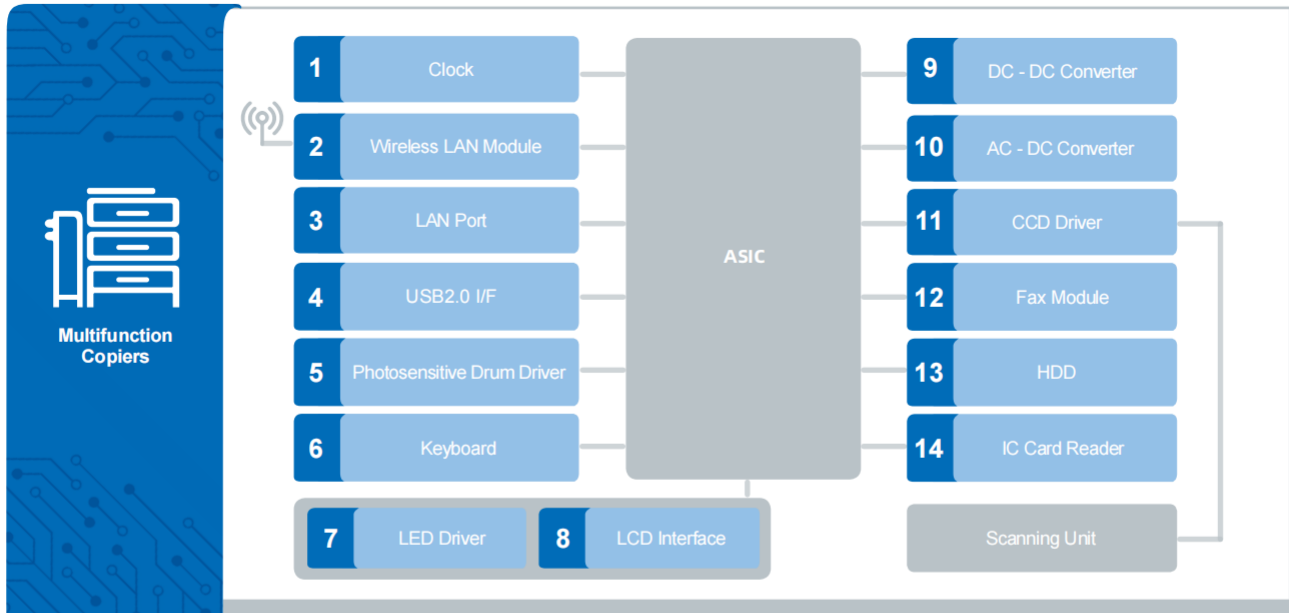
# Printer



<b>1</b>	<b>Clock</b>	
Multilayer Chip Ferrite Bead / SZ Series		SZ
<b>2</b>	<b>Bluetooth</b>	
Multilayer Chip Antenna / SLDA Series		SLDA
Multilayer Chip Ceramic Inductor / SDCL Series		SDCL
Multilayer Chip LC Fitter / SLFB & SLFL Series		SLFB / SLFL
Multilayer Chip High Q Inductor / HQ Series		HQ
<b>3</b>	<b>Wireless LAN Module</b>	
Multilayer Chip Varistor / SDV Series		SDV
Multilayer Chip Ceramic Inductor / SDCL Series		SDCL
Wire Wound Chip Ceramic Inductor / SDWL - C & MWSD - C Series		SDWL - C / MWSD - C
Multilayer Chip Antenna / SLDA Series		SLDA
Multilayer Chip LC Fitter / SLFB & SLFL Series		SLFB / SLFL
Multilayer Chip High Q Inductor / HQ Series		HQ
<b>4</b>	<b>LAN I / F</b>	
Wire Wound Common Mode Choke Coil / SDCW Series		SDCW
Multilayer Chip Ferrite Bead / PZ & UPZ & EPZ Series		PZ / UPZ / EPZ
Multilayer Chip Varistor / SDV & SDVL - HS Series		SDV / SDVL - HS

5/13		Pict Bridge Port / USB2.0 I / F
Multilayer Chip Ferrite Bead / PZ & UPZ & EPZ Series		PZ / UPZ / EPZ
Wire Wound Chip Common Mode Choke Coil / SDCW Series		SDCW
Multilayer Chip Varistor / SDV Series		SDV
6/12		Laser Scanning Driver/Laser Diode Driver / Inkjet Print Head Driver
Multilayer Chip Ferrite Bead / PZ & UPZ & EPZ Series		PZ / UPZ / EPZ
Chip NTC Thermistor / SDNT Series		SDNT
7		LED Driver / Controller
Wire Wound SMD Power Inductor / SWPA & SPH & WPN Series		SWPA / SPH / WPN
Multilayer Chip Ferrite Bead / PZ & UPZ Series		PZ / UPZ
8		LCD Interface
Multilayer Chip Varistor / SDV Series		SDV
Multilayer Chip Ferrite Bead / SZ & PZ & UPZ Series		SZ / PZ / UPZ
Wire Wound Chip Common Mode Choke Coil / SDCW Series		SDCW
9		DC - DC Converter
Multilayer Chip Ferrite Bead / PZ & UPZ & EPZ Series		PZ / UPZ / EPZ
Multilayer Chip Power Inductor / MPH Series		MPH
Wire Wound SMD Power Inductors / SWPA & SPH & WPN Series		SWPA / SPH / WPN
Chip Solid Tantalum Capacitors / TC2 & TC3 Series		TC2 / TC3
10		AC - DC Converter
Multilayer Chip Varistor for Voltage surge Suppression / SVMH & SDVL - HS Series		SVMH / SDVL - HS
Power transformer / TWP & TWS Series		TWP / TWS
11		Keyboard
Multilayer Chip Varistor / SDV Series		SDV
14		Fax Module
Multilayer Chip Varistor for Voltage surge Suppression / SDVL - HS Series		SDVL - HS

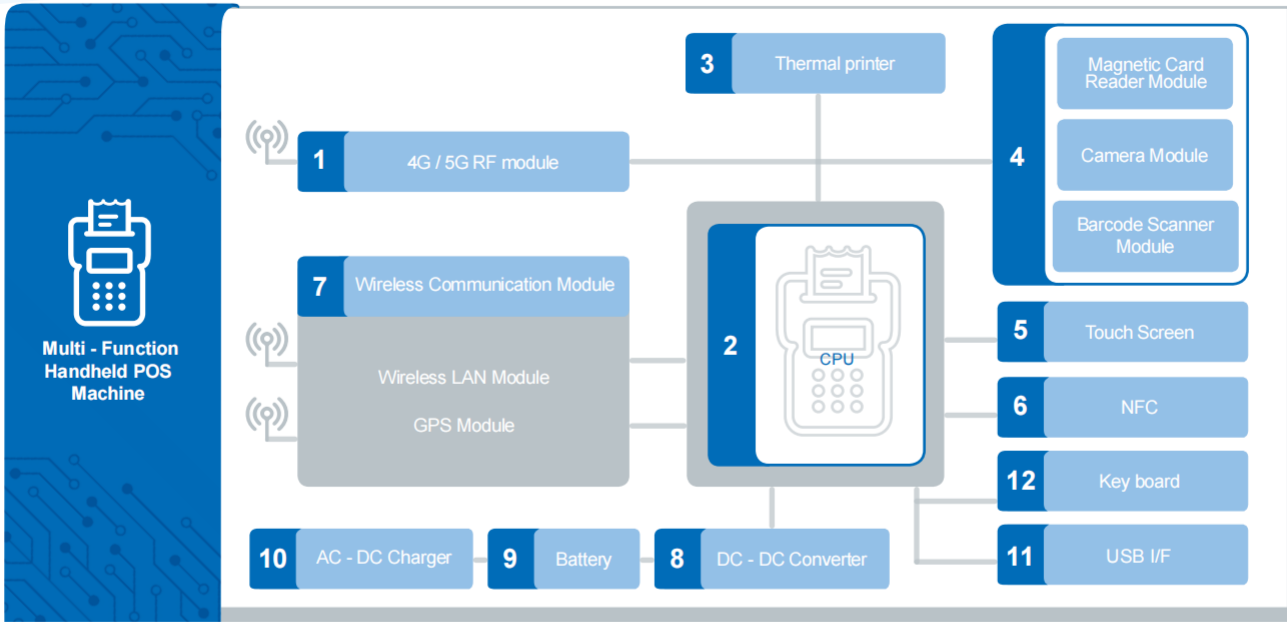
# Multifunction Copiers


















<b>1</b>	<b>Clock</b>	
	Multilayer Chip Ferrite Bead / SZ Series	 SZ
<b>2</b>	<b>Wireless LAN Module</b>	
	Multilayer Chip Varistor / SDV Series	 SDV
	Multilayer Chip Ceramic Inductor / SDCL Series	 SDCL
	Wire Wound Chip Ceramic Inductor / SDWL - C & MWSD - C Series	 SDWL - C / MWSD - C
	Multilayer Chip Antenna / SLDA Series	 SLDA
	Multilayer Chip LC Fitter / SLFB & SLFL Series	 SLFB / SLFL
	Multilayer Chip High Q Inductor / HQ Series	 HQ
<b>3</b>	<b>LAN Port</b>	
	Multilayer Chip Varistor for Voltage surge Suppression / SDVL - HS Series	 SDVL - HS
	Wire Wound Chip Common Mode Choke Coil / SDCW Series	 SDCW
	Multilayer Chip Ferrite Bead / PZ & UPZ & EPZ Series	 PZ / UPZ / EPZ
	Multilayer Chip Varistor / SDV Series	 SDV
<b>4</b>	<b>USB2.0 I / F</b>	
	Multilayer Chip Ferrite Bead / PZ & UPZ & EPZ Series	 PZ / UPZ / EPZ
	Wire Wound Chip Common Mode Choke Coil / SDCW Series	 SDCW
	Multilayer Chip Varistor / SDV Series	 SDV
<b>5</b>	<b>Photosensitive Drum Driver</b>	
	Multilayer Chip Ferrite Bead / PZ & UPZ & EPZ Series	 PZ / UPZ / EPZ
	Chip NTC Thermistor / SDNT Series	 SDNT

<b>6</b>	<b>Keyboard</b>	
Multilayer Chip Varistor / SDV Series		SDV
<b>7</b>	<b>LED Driver</b>	
Wire Wound SMD Power Inductor / SWPA & SPH & WPN Series		SWPA / SPH / WPN
Multilayer Chip Ferrite Bead / PZ & UPZ & EPZ Series		PZ / UPZ / EPZ
<b>8</b>	<b>LCD Interface</b>	
Multilayer Chip Varistor / SDV Series		SDV
Multilayer Chip Ferrite Bead / SZ & PZ & UPZ & EPZ Series		SZ / PZ / UPZ / EPZ
Wire Wound Chip Common Mode Choke Coil / SDCW Series		SDCW
<b>9</b>	<b>DC - DC Converter</b>	
Multilayer Chip Ferrite Bead / PZ & UPZ & EPZ Series		PZ / UPZ / EPZ
Multilayer Chip Power Inductor / MPH Series		MPH
Wire Wound SMD Power Inductors / SWPA & SPH & WPN Series		SWPA / SPH / WPN
Chip Solid Tantalum Capacitors / TC2 & TC3 Series		TC2 / TC3
<b>10</b>	<b>AC - DC Converter</b>	
Multilayer Chip Varistor for Voltage surge Suppression / SDVL - HS Series		SDVL - HS
Planar Electronic Transformer / TPP Series		TPP
Wire Wound Electronic Transformer / TWP Series		TWP
<b>11</b>	<b>CCD Driver</b>	
Multilayer Chip Ferrite Bead / PZ & UPZ & EPZ Series		PZ / UPZ / EPZ
Multilayer Chip Varistor / SDV Series		SDV
Multilayer Chip Power Inductor / MPH Series		MPH
<b>12</b>	<b>Fax Module</b>	
Multilayer Chip Varistor for Voltage surge Suppression / SDVL - HS Series		SDVL - HS
<b>13</b>	<b>HDD</b>	
Wire Wound Chip Power Inductor / SWPA & SPH & WPN Series		SWPA / SPH / WPN
Chip NTC Thermistor / SDNT Series		SDNT
Multilayer Chip Ferrite Bead / GZ & PZ Series		GZ / PZ
<b>14</b>	<b>IC Card Reader</b>	
Wire Wound Chip Power Inductor / SWPA & SPH & WPN Series		SWPA / SPH / WPN
Wire Wound Chip Ferrite Inductor / SDWL - F Series		SDWL - F
Multilayer Chip Ferrite Inductor / SDFL Series		SDFL
Chip Solid Tantalum Capacitors / TC2 & TC3 Series		TC2 / TC3
Flexible NFC Antenna FA Series / Ferrite Sheet FS Series	 	MNFA FS

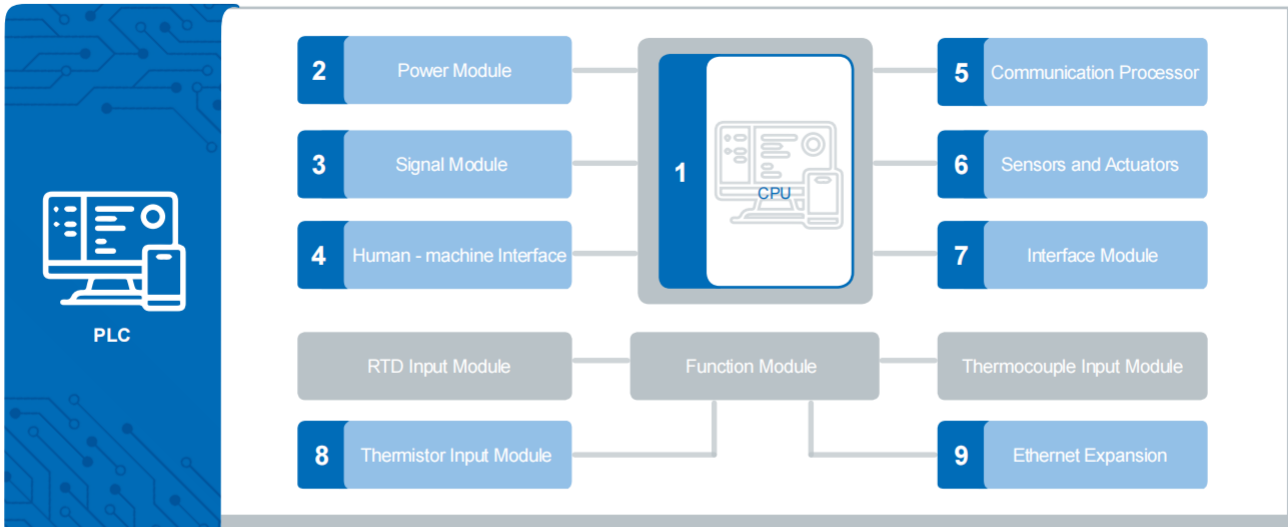
# Multi - Function Handheld POS Machine



1	4G / 5G RF module	
	Multilayer Chip Ceramic Inductor / SDCL Series	SDCL
	Wire Ceramic Inductor / MWSD - C Series	MWSD - C
	Chip NTC Thermistor / SDNT Series	SDNT
	Multilayer Chip Ferrite Bead / HZ & HPZ Series	HZ / HPZ
	Multilayer Chip High Q Inductor / HQ Series	HQ
2	CPU	
	Multilayer Chip Ferrite Bead / SZ & HZ & HPZ Series	SZ / HZ / HPZ
	Chip Solid Tantalum Capacitors / TC2 & TC3 Series	TC2 / TC3
3	Thermal printer	
	Multilayer Chip Ferrite Bead / SZ & HZ & HPZ Series	SZ / HZ / HPZ
	Chip NTC Thermistor / SDNT Series	SDNT
4	Magnetic Card Reader Module / Camera Module / BarcodeScanner Module	
	Multilayer Chip Varistor / SDV Series	SDV
	Multilayer Chip Ferrite Bead / SZ & HZ & HPZ Series	SZ / HZ / HPZ
	Multilayer Chip Power Inductor / MPH Series	MPH
	Chip NTC Thermistor / SDNT Series	SDNT
	Multilayer Common Mode Choke / SDMM Series	SDMM
5	Touch Screen	
	Multilayer Chip Varistor / SDV Series	SDV
	Multilayer Ferrite Bead / SZ & HZ & PZ & UPZ Series	SZ / HZ / PZ / UPZ
	Multilayer Common Mode Choke / SDMM Series	SDMM
	Wire Power Inductor / SWPA & SPH & WPN Series	SWPA / SPH / WPN

6		NFC	
Wire Wound Ferrite Inductor / SDWL - FW & WL - FS Series		SDWL - FW / WL - FS	
Multilayer Chip Ferrite Inductor / SDFL Series		SDFL	
Multilayer Chip Ferrite Bead / SZ & GZ Series		SZ / GZ	
Flexible Antenna MNFA Series / Ferrite Sheet FS Series		FS	
7		Wireless Communication Module	
Multilayer Chip Ceramic Inductor / SDCL Series		SDCL	
Wire Wound Chip Ceramic Inductor / MWSD - C Series		MWSD - C	
Multilayer Chip Ferrite Bead / SZ & HZ Series		SZ / HZ	
Multilayer Chip Antenna / SLDA Series		SLDA	
Multilayer Chip Balun / SLBL Series		SLBL	
Multilayer Chip LC Filter / SLFB & SLFL Series		SLFB / SLFL	
8		DC - DC Converter	
Multilayer Chip Ferrite Bead / PZ & UPZ & EPZ Series		PZ / UPZ / EPZ	
Multilayer Chip Power Inductor / MPH Series		MPH	
Wire Wound SMD Power Inductor / SWPA & SPH & WPN Series		SWPA / SPH / WPN	
Chip Solid Tantalum Capacitors / TC2 & TC3 Series		TC2 / TC3	
9		Battery	
Chip NTC Thermistor / SDNT Series		SDNT	
Multilayer Chip Ferrite Bead / PZ & UPZ & EPZ Series		PZ / UPZ / EPZ	
Multilayer Chip Varistor / SDV Series		SDV	
10		AC - DC Charger	
Multilayer Chip Varistor for Surge Current Suppression / SDVL - HS & SVMH Series		SDVL - HS / SVMH	
Multilayer Chip Ferrite Bead / PZ & UPZ & EPZ Series		PZ / UPZ / EPZ	
Chip NTC Thermistor / SDNT Series		SDNT	
Multilayer Chip Choke Inductor / MCL & MPH Series		MCL / MPH	
Power transformer / TWP & TWS Series		TWP / TWS	
11		USB I / F	
Multilayer Chip Ferrite Bead / PZ & UPZ & EPZ Series		PZ / UPZ / EPZ	
Wire Common Mode Choke / SDCW Series		SDCW	
Multilayer Chip Varistor / SDV Series		SDV	
12		Key Board	
Multilayer Chip Varistor / SDV Series		SDV	








1 CPU	
Wire Wound Chip Ceramic Inductor / MWSD - C Series	 MWSD - C
Multilayer Chip Ferriter Inductor / SDFL Series	 SDFL
Wire Wound Chip Ferrite Inductor / MWSD - F Series	 MWSD - F
Multilayer Chip Ferrite Bead / GZ & SZ & PZ & UPZ Series	 GZ / SZ / PZ / UPZ
2 Power Module	
Multilayer Chip Ferrite Bead / GZ & SZ & PZ & UPZ & EPZ Series	 GZ / SZ / PZ / UPZ / EPZ
Multilayer Chip Choke Inductor / MCL Series	 MCL
Wire Wound Chip Ferrite Inductor / MWSD - F Series	 MWSD - F
Wire Wound SMD Power Inductors / SWPA & SPH & WPN Series	 SWPA / SPH / WPN
Mini Molded Chip Power Inductors / MWTC & MWSA Series	 MWTC / MWSA
3 Signal Module	
Wire Wound Chip Ferrite Inductor / MWSD - F Series	 MWSD - F
Multilayer Chip Ferrite Bead / PZ & UPZ Series	 PZ / UPZ
Wire Wound SMD Power Inductors / SWPA & SPH & WPN Series	 SWPA / SPH / WPN
Mini Molded Chip Power Inductors / MWTC & MWSA Series	 MWTC / MWSA
Multilayer Chip Varistor / SDV Series	 SDV

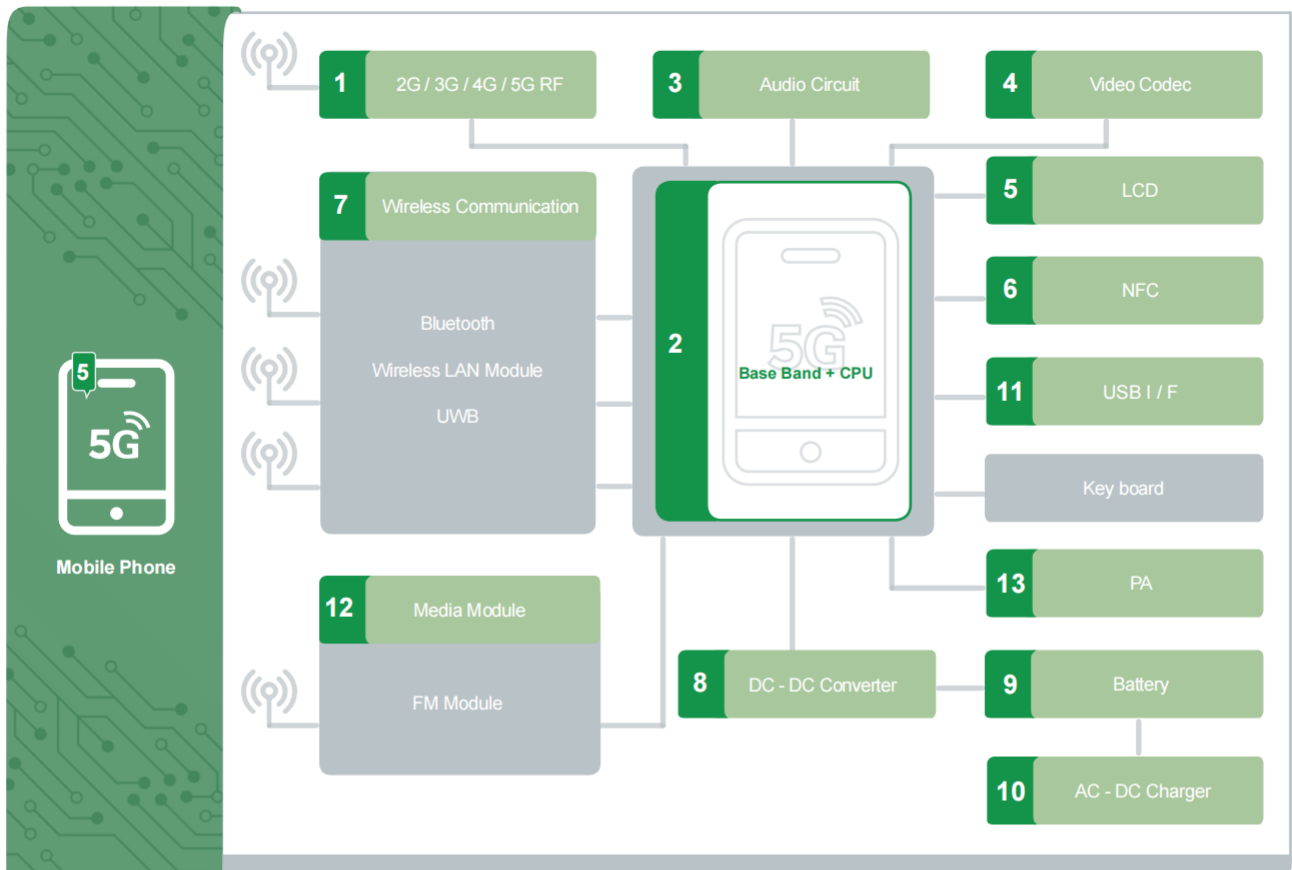
4 Human - machine Interface	
Wire Wound Chip Common Mode Choke Coil / SDCW Series	 SDCW
Chip NTC Thermistor / SDNT Series	 SDNT
Multilayer Chip varistor / SDV Series	 SDV
Multilayer Chip Ferrite Bead / GZ & SZ & PZ & UPZ Series	 GZ / SZ / PZ / UPZ
Wire Wound Chip Ferrite Inductor / MWSD - F Series	 MWSD - F
5 / 6 / 7 Communication Processor /Sensors and Actuators / Interface Module	
Multilayer Chip Ferrite Inductor / SDFL Series	 SDFL
Multilayer Chip Ferrite Bead / GZ & PZ & UPZ Series	 GZ / PZ / UPZ
Multilayer Chip Varistor / SDV Series	 SDV
8 Thermistor Input Module	
Multilayer Chip Ferrite Bead / PZ & UPZ Series	 PZ / UPZ
Wire Wound Chip Common Mode Choke Coil / SDCW Series	 SDCW
Chip NTC Thermistor / SDNT Series	 SDNT
Multilayer Chip varistor / SDV Series	 SDV
9 Ethernet Expansion	
Multilayer Chip Ferrite Bead / PZ & UPZ Series	 PZ / UPZ
Wire Wound Chip Common Mode Choke Coil / SDCW Series	 SDCW
Multilayer Chip Varistor / SDV Series	 SDV
Wire Wound Chip Ceramic Inductor / MWSD - C Series	 MWSD - C






























# Sunlord Application Guide




   Personal Electronic

# Mobile Phone

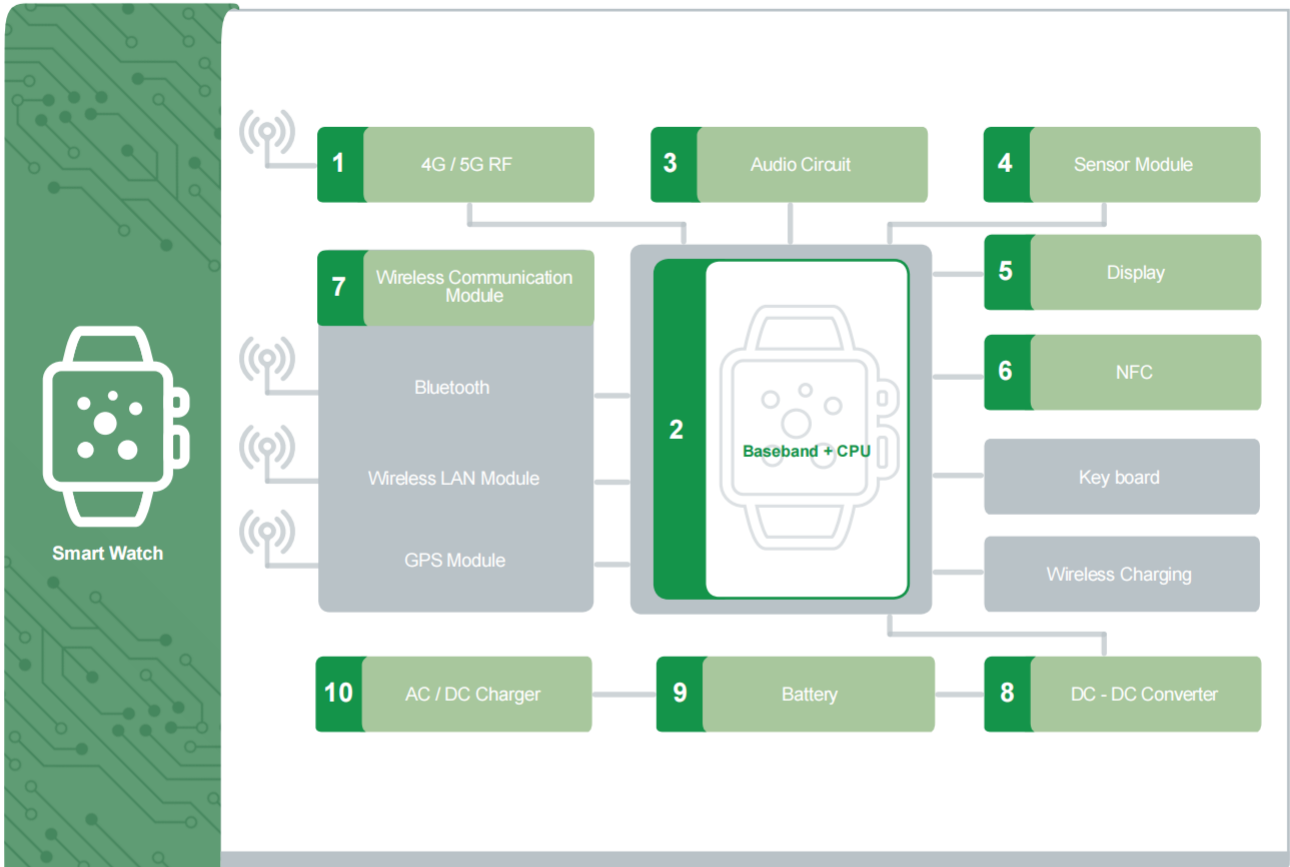


1	2G / 3G / 4G / 5G RF	
Multilayer Chip Ceramic Inductor / SDCL Series		SDCL
Wire Wound Chip Ceramic Inductor / MWSD - C Series		MWSD - C
Chip NTC Thermistor / SDNT Series		SDNT
Multilayer Chip Ferrite Bead / HZ & HPZ Series		HZ / HPZ
The Film RF Inductor / HQ & UHQ Series		HQ / UHQ
Multilayer Chip LC Filter / SLFB & SLFL Series		SLFB / SLFL
Multilayer Chip LC Diplexer & Triplexer / SLFD & SLFT Series		SLFD
Multilayer Chip Balun / SLBL Series		SLBL
2	Base Band + CPU	
Multilayer Chip Ferrite Bead / SZ & HZ & HPZ Series		SZ / HZ / HPZ
3	Audio Circuit	
Multilayer Chip Ferrite Bead / MZAH & MZAS Series		MZAH / MZAS
Wire Wound Ferrite Bead / WHZ - F Series		WHZ - F
Multilayer Chip Ferrite Bead / GZ & HZ & HPZ Series		GZ / PZ / HPZ

4 Video Codec	
Multilayer Chip Ferrite Bead / SZ Series	 SZ
Multilayer Chip Power Inductor / MPH Series	 MPH
Chip NTC Thermistor / SDNT Series	 SDNT
Multilayer Chip Common Mode Filter / SDMM Series	 SDMM
5 LCD	
Multilayer Chip Ferrite Bead / SZ & HZ & PZ & UPZ Series	 SZ / HZ / PZ / UPZ
Wire Wound SMD Power Inductor / SWPA & SPH & WPN Series	 SWPA / SPH / WPN
Multilayer Chip Common Mode Filter / SDMM Series	 SDMM
Chip NTC Thermistor / SDNT Series	 SDNT
6 NFC	
Wire Wound Chip Ferrite Inductor / MWSD - F Series	 MWSD - F
Multilayer Chip Ferrite Inductor / MCL - N Series	 MCL - N
Multilayer Chip Ferrite Bead / SZ & GZ Series	 SZ / GZ
Flexible Antenna MNFA Series / Ferrite Sheet FS Series	 MNFA  FS
7 Wireless Communication Module	
Multilayer Chip Ceramic Inductor / SDCL Series	 SDCL
Wire Wound Chip Ceramic Inductor / SDWL - C Series	 SDWL - C
Wire Wound Chip Ceramic Inductor / MWSD - C Series	 MWSD - C
The Film RF Inductor / HQ & UHQ Series	 HQ / UHQ
Multilayer Chip Ferrite Bead / SZ & HZ Series	 SZ / HZ
Multilayer Chip Antenna / SLDA Series	 SLDA
Multilayer Chip Balun / SLBL Series	 SLBL
Multilayer Chip LC Fitter / SLFB & SLFL Series	 SLFB / SLFL
Multilayer Chip Power Inductor / MPH Series	 MPH
8 DC - DC Converter	
Multilayer Chip Ferrite Bead / PZ & UPZ & EPZ Series	 PZ / UPZ / EPZ
Multilayer Chip Power Inductor / MPH Series	 MPH
Wire Wound SMD Power Inductors / SWPA & SPH & WPN & WPG Series	 SWPA / SPH / WPN / WPG
Mini Molded Chip Power Inductors / MWTC Series	 MWTC
Chip Solid Tantalum Capacitors / TC2 & TC3 Series	 TC2 / TC3























9 Battery	
Chip NTC Thermistor / SDNT Series	 SDNT
Multilayer Chip Ferrite Bead / PZ & UPZ & EPZ Series	 PZ / UPZ / EPZ
Multilayer Chip Varistor / SDV Series	 SDV
10 AC - DC Charger	
Multilayer Chip Varistor for Surge Current Suppression / SDVL - HS Series	 SDVL - HS
Multilayer Chip Ferrite Bead / PZ & UPZ & EPZ & MZAS Series	 PZ / UPZ / EPZ / MZAS
Chip NTC Thermistor / SDNT Series	 SDNT
Multilayer Chip Choke Inductor / MPH Series	 MPH
Power Transformer / TWP Series	 TWP
Planar Electronic Transformer / TPP Series	 TPP
11 USB I / F	
Multilayer Chip Ferrite Bead / PZ & UPZ Series	 PZ / UPZ
Wire Common Mode Choke / SDCW Series	 SDCW
12 Media Module	
Multilayer Chip Ceramic Inductor / SDCL Series	 SDCL
The Film RF Inductor / HQ Series	 HQ
13 PA	
Multilayer Chip Ceramic Inductor / SDCL Series	 SDCL
The Film RF Inductor / HQ Series	 HQ
Multilayer Chip LC Fitter / SLFB Series	 SLFB

# Smart Watch

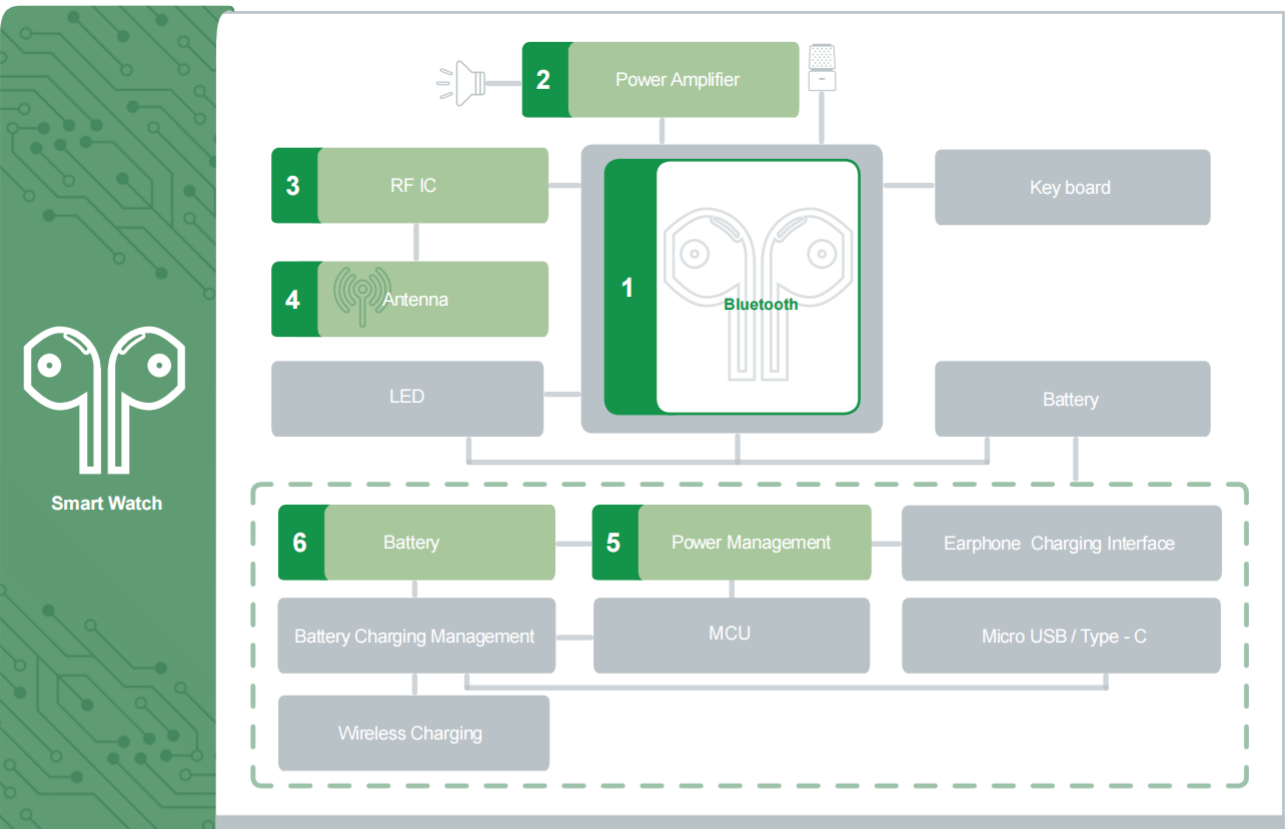


1	4G / 5G RF	
	Multilayer Chip Ceramic Inductor / SDCL Series	SDCL
	Wire Wound Chip Ceramic Inductor / SDWL - C Series	MWSD - C
	Chip NTC Thermistor / SDNT Series	SDNT
	Multilayer Chip Ferrite Bead / HZ & HPZ Series	HZ / HPZ
	Multilayer Chip High Q Inductor / HQ Series	HQ
2	Baseband + CPU	
	Multilayer Chip Ferrite Bead / SZ & HZ & HPZ Series	SZ / HZ / HPZ
3	Audio Circuit	
	Multilayer Chip Ferrite Bead / SZ & HZ & HPZ & MZA Series	SZ / HZ / HPZ / MZA
4	Sensor Module	
	Chip NTC Thermistor / SDNT Series	SDNT
	Multilayer Chip Ferrite Bead / GZ & SZ & PZ Series	GZ / SZ / PZ

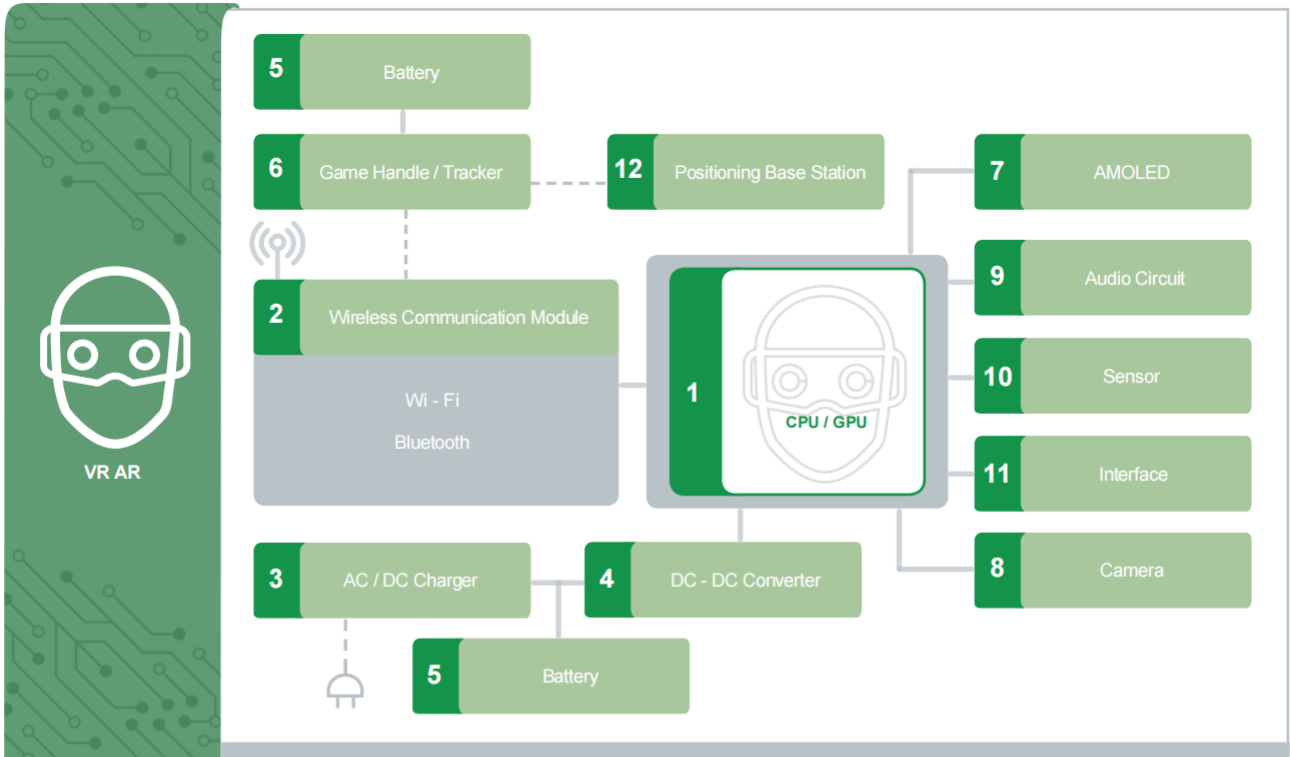


5 Display	
Chip NTC Thermistor / SDNT Series	 SDNT
Multilayer Chip Ferrite Bead / SZ & HZ & PZ & UPZ Series	 SZ / HZ / PZ / UPZ
Multilayer Chip Common Mode Filter / SDMM Series	 SDMM
6 NFC	
Wire Wound Chip Ferrite Inductor / MWSD - F Series	 MWSD - F
Multilayer Chip Ferrite Inductor / MCL - N Series	 MCL - N
Flexible NFC Antenna MNFA Series	 MNFA
7 Wireless Communication Module	
Multilayer Chip Ceramic Inductor / SDCL Series	 SDCL
Wire Wound Chip Ceramic Inductor / MWSD - C Series	 MWSD - C
Multilayer Chip High Q Inductor / HQ Series	 HQ
Multilayer Chip Ferrite Bead / SZ & HZ Series	 SZ / HZ
Multilayer Chip Antenna / SLDA Series	 SLDA
Multilayer Chip Balun / SLBL Series	 SLBL
Multilayer Chip LC Fitter / SLFB & SLFL Series	 SLFB / SLFL
8 DC - DC Converter	
Multilayer Chip Ferrite Bead / PZ & UPZ & EPZ Series	 PZ / UPZ / EPZ
Multilayer Chip Power Inductor / MPH Series	 MPH
Wire Wound SMD Power Inductors / WPG & WPN Series	 WPN
Molding Inductor / MWTC Series	 MWTC
9 Battery	
Chip NTC Thermistor / SDNT Series	 SDNT
10 AC - DC Charger	
High Surge type multilayer Chip Varistor for Surge Current Suppression /SDVL - HS Series	 SDVL - HS
Leaded Zinc Oxide Varistor / SVMH Series	 SVMH
Multilayer Chip Ferrite Bead / PZ & UPZ & EPZ Series	 PZ / UPZ / EPZ
Chip NTC Thermistor / SDNT Series	 SDNT
Multilayer Chip Choke Inductor / MPH Series	 MPH
Power transformer / TWP Series	 TWP
Planar Transformer / TPP Series	 TPP





















# Wireless Earphone



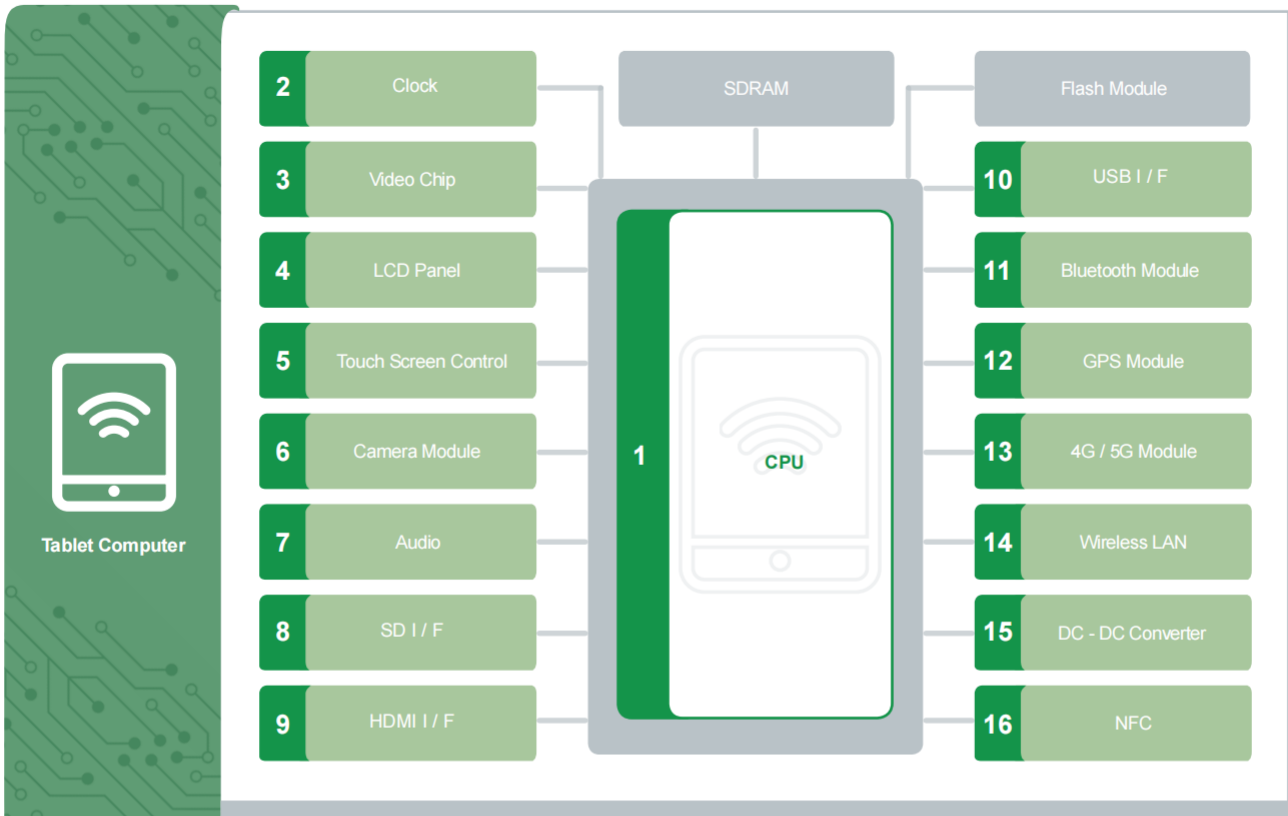
1	Bluetooth	
	Multilayer Power Inductor / MCL & MPH Series	MPH
	Wire Wound Chip Ferrite Inductor / MWSD - FE Series	MWSD - FE
2	Power Amplifier	
	Multilayer Chip Ferrite Bead / HZ & HPZ Series	HZ / HPZ
	Solid Tantalum Chip Multilayer Chip Audio Bead / MZAS & MZAH Series	MZAS / MZAH
3	RF	
	Multilayer Chip High Q Inductor / HQ Series	HQ
	Multilayer Chip Inductor / SDCL Series	SDCL
4	Antenna	
	Multilayer Chip Antenna / SLDA Series	SLDA
5	Power Management	
	Wire Wound Chip Power Inductor / SWPA & SPH & WPN Series	SWPA / SPH / WPN
	Molding Inductor / MWTC Series	MWTC
6	Battery	
	Chip Temp. Sensing NTC Thermistor / SDNT Series	SDNT































<b>1</b>	<b>CPU GPU</b>	
Chip NTC Thermistor / SDNT Series		SDNT
Multilayer Chip Ferrite Bead / SZ & SZ - C & HZ & HPZ Series		SZ / SZ - C / HZ / HPZ
<b>2</b>	<b>Wireless Communication Module</b>	
Multilayer Chip Ceramic Inductor / SDCL Series		SDCL
Wire Wound Chip Ceramic Inductor / MWSD - C Series		MWSD - C
Multilayer Chip High Q Inductor / HQ Series		HQ
Multilayer Chip Coupler / SLCP Series		SLCP
Multilayer Chip Balun / SLBL Series		SLBL
Multilayer Chip LC Fitter / SLFB & SLFL Series		SLFB / SLFL
Multilayer Chip Diplexer / SLFD Series		SLFD
<b>3</b>	<b>AC / DC Charger</b>	
Wire Wound Electronic Transformer / TWP Series		TWP
Chip NTC Thermistor / SDNT Series		SDNT
<b>4 / 5</b>	<b>Battery DC / DC Converter</b>	
Wire Wound SMD Power Inductors / SWPA Series		SWPA
Wire Wound SMD Power Inductors / WPN Series		WPN
Wire Wound SMD Power Inductors / SPH Series		SPH
Mini Molded Chip Power Inductors / MWTC Series		MWTC

6	Game Handle & Tracker	
Chip NTC Thermistor / SDNT Series		SDCL
Wire Wound SMD Power Inductors / SWPA Series		SWPA
Wire Wound SMD Power Inductors / WPN Series		WPN
Wire Wound SMD Power Inductors / SPH Series		SPH
Mini Molded Chip Power Inductors / MWTC Series		MWTC
Multilayer Chip Ceramic Inductor / SDCL Series		SDCL
Wire Wound Chip Ceramic Inductor / MWSD - C Series		MWSD - C
Multilayer Chip High Q Inductor / HQ Series		HQ
7	AMOLED	
Multilayer Chip Common Mode Filter /SDMM Series		SDMM
Chip NTC Thermistor /SDNT Series		SDNT
Multilayer Chip Ferrite Bead / GZ & SZ & PZ & UPZ Series		GZ / SZ / PZ / UPZ
Wire Wound SMD Power Inductor / SWPA & SPH & WPN Series		SWPA / SPH / WPN
8	Camera	
Multilayer Chip Ferrite Bead / SZ & GZ Series		SZ / GZ
Multilayer Chip Common Mode Filter / SDMM Series		SDMM
Chip NTC Thermistor / SDNT Series		SDNT
9	Audio Circuit	
Multilayer Chip Ferrite Bead / PZ & UPZ & HPZ Series		PZ / UPZ / HPZ
Multilayer Chip Audio Bead / MZAS & MZAH Series		MZAS / MZAH
10	Sensor	
Chip NTC Thermistor / SDNT Series		SDNT
11	USB , HDMI Interface	
Wire Wound Chip Common Mode Choke Coil / SDCW Series		SDCW
12	Positioning Base Station	
Chip NTC Thermistor / SDNT Series		SDNT

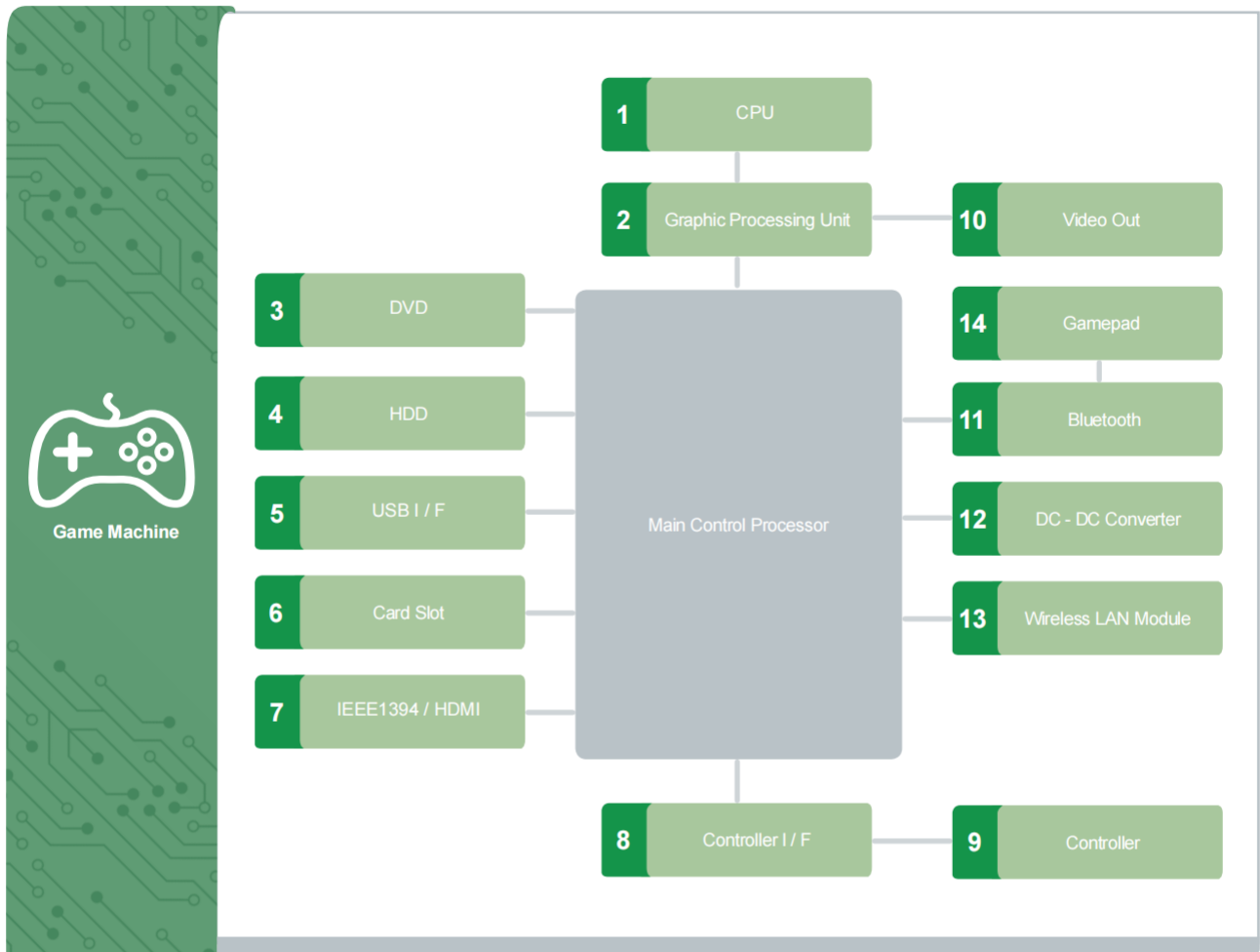
# Tablet Computer



























<b>1 / 2 / 3</b>	CPU / Clock / Video Chip	 SZ / PZ / UPZ
Multilayer Chip Ferrite Bead / SZ & PZ & UPZ Series		
<b>4 / 5</b>	LCD Panel / Touch Screen Control	 SDMM
Multilayer Chip Common Mode Filter / SDMM Series		
Chip NTC Thermistor / SDNT Series	 SDNT	
Multilayer Chip Ferrite Bead / GZ & SZ & PZ & UPZ Series	 GZ / SZ / PZ / UPZ	
<b>6</b>	Camera Module	 PZ / UPZ
Multilayer Chip Ferrite Bead / PZ & UPZ Series		
Multilayer Chip Common Mode Filter / SDMM Series	 SDMM	
Multilayer Chip Power Inductor / MPH Series	 MPH	
<b>7</b>	Audio	 MZAS / MZAH
Multilayer Chip Ferrite Bead / MZAS & MAZH Series		
Wire Wound Chip Ferrite Inductor / WL - FS Series	 WL - FS	
<b>8 / 9</b>	SD I / F / HDMI I / F	 SZ / PZ
Multilayer Chip Ferrite Bead / SZ & PZ Series		

10 USB I / F	
Multilayer Chip Ferrite Bead / PZ & UPZ Series	 PZ / UPZ
Wire Wound Chip Common Mode Choke Coil / SDCW Series	 SDCW
11 / 14 Bluetooth Module / Wireless LAN	
Multilayer Chip Ceramic Inductor / SDCL Series	 SDCL
Wire Wound Chip Ceramic Inductor / MWSD - C Series	 MWSD - C
Multilayer Chip Antenna / SLDA Series	 SLDA
Multilayer Chip LC Filter / SLFB & SLFL Series	 SLFB / SLFL
Multilayer Chip Power Inductor / MPH Series	 MPH
Multilayer Chip High Q Inductor / HQ Series	 HQ
Multilayer Chip Balun / SLBL Series	 SLBL
Multilayer Chip LC Diplexer / SLFD Series	 SLFD
12 / 13 GPS Module / 4G / 5G Module	
Multilayer Chip Ceramic Inductor / SDCL Series	 SDCL
Wire Wound Chip Ceramic Inductor / MWSD - C Series	 MWSD - C
Multilayer Chip Ferrite Bead / GZ & HZ Series	 GZ / HZ
Multilayer Chip Power Inductor / MPH Series	 MPH
Multilayer Chip High Q Inductor / HQ Series	 HQ
Multilayer Chip LC Filter / SLFB & SLFL Series	 SLFB / SLFL
Multilayer Chip LC Diplexer & Triplexer / SLFD & SLFT Series	 SLFD
Multilayer Chip Balun / SLBL Series	 SLBL
15 DC - DC Converter	
Multilayer Chip Ferrite Bead / PZ & UPZ & EPZ Series	 PZ / UPZ / EPZ
Wire Wound SMD Power Inductor / SWPA & SPH & WPN Series	 SWPA / SPH / WPN
Mini Molded Chip Power Inductors / MWTC Series	 MWTC
Multilayer Chip Power Inductor / MPH Series	 MPH
16 NFC	
Wire Wound Chip Ferrite Inductor / WL - FS Series	 WL - FS
Wire Wound Chip Ferrite Inductor / MWSD - FE Series	 MWSD - FE
Multilayer Chip Ferrite Inductor / SDFL Series	 SDFL
Multilayer Chip Ferrite Bead / SZ & GZ Series	 SZ / GZ
Flexible Antenna MNFA Series / Ferrite Sheet FS Series	 MNFA  FS

# Game Machine



<b>1 / 2</b> Graphic Processing Unit	
Multilayer Chip Ferrite Bead / SZ & HZ Series	SZ / HZ
Chip Solid Tantalum Capacitors / TC2 & TC3 Series	TC2 / TC3
<b>3 / 4 / 6</b> DVD / HDD / Card Slot	
Wire Wound SMD Power Inductors / SWPA & SPH & WPN Series	SWPA / SPH / WPN
Chip NTC Thermistor / SDNT Series	SDNT
Multilayer Chip Ferrite Bead / SZ Series	SZ
Multilayer Chip Varistor / SDV Series	SDV
Chip Solid Tantalum Capacitors / TC2 & TC3 Series	TC2 / TC3
<b>5</b> USB I / F	
Multilayer Chip Ferrite Bead / PZ & UPZ Series	PZ / UPZ
Wire Wound Chip Common Mode Choke Coil / SDCW Series	SDCW
Multilayer Chip Varistor / SDV Series	SDV



7 IEEE1394 / HDMI	
Multilayer Chip Ferrite Bead / PZ & UPZ Series	 PZ / UPZ
Wire Wound Chip Common Mode Choke Coil / SDCW Series	 SDCW
Multilayer Chip Common Mode Filter / SDMM Series	 SDMM
Multilayer Chip Varistor / SDV Series	 SDV
8 / 9 Controller I / F / Controller	
Multilayer Chip Ferrite Bead / GZ & SZ Series	 GZ / SZ
Wire Wound Chip Common Mode Choke Coil / SDCW Series	 SDCW
10 Video Out	
Multilayer Chip Ferrite Bead / SZ & HZ Series	 SZ / HZ
Multilayer Chip Varistor / SDV Series	 SDV
11 / 13 Bluetooth / Wireless LAN module	
Multilayer Chip Ceramic Inductor / SDCL Series	 SDCL
Multilayer Chip High Q Inductor / HQ Series	 HQ
Wire Wound Chip Ceramic Inductor / MWSD - C Series	 MWSD - C
Multilayer Chip Antenna / SLDA Series	 SLDA
Multilayer Chip LC Filter / SLFB & SLFL Series	 SLFB / SLFL
Multilayer Chip Varistor / SDV Series	 SDV
12 DC - DC Converter	
Multilayer Chip Ferrite Bead / PZ & UPZ & EPZ Series	 PZ / UPZ / EPZ
Wire Wound SMD Power Inductor / SWPA & SPH & WPN & WPZ Series	 SWPA / SPH / WPN / WPZ
Multilayer Chip Power Inductor / MPH Series	 MPH
Multilayer Chip Varistor / SDV Series	 SDV
Multilayer Chip Varistor for Voltage surge Suppression / SDVL - HS Series	 SDVL - HS
Chip Solid Tantalum Capacitors / TC2 & TC3 Series	 TC2 / TC3
14 Gamepad	
Multilayer Chip Ceramic Inductor / SDCL Series	 SDCL
Multilayer Chip High Q Inductor / HQ Series	 HQ
Wire Wound SMD Power Inductor / SWPA & SPH & WPN & WPZ Series	 SWPA / SPH / WPN / WPZ
Mini Moled Chip Power Inductor / MWTC Series	 MWTC



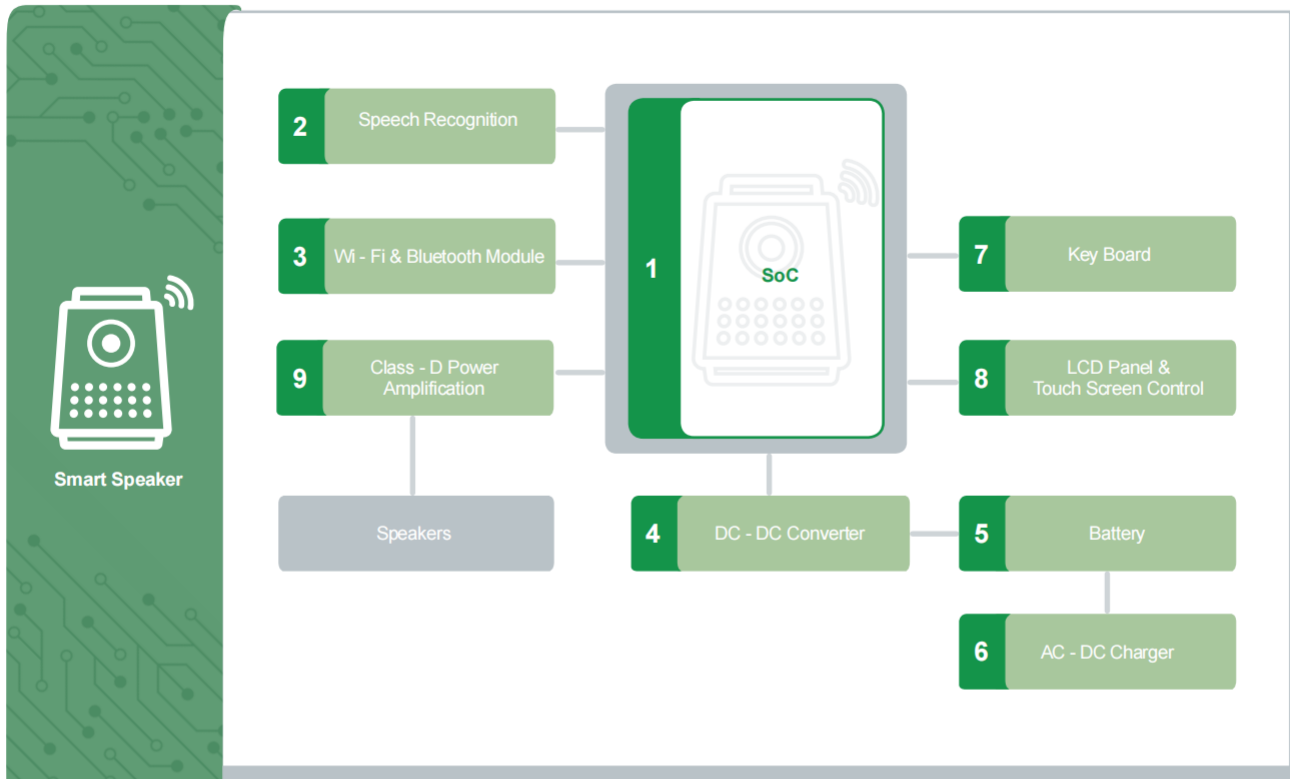





















# Sunlord Application Guide

 Home Appliances  


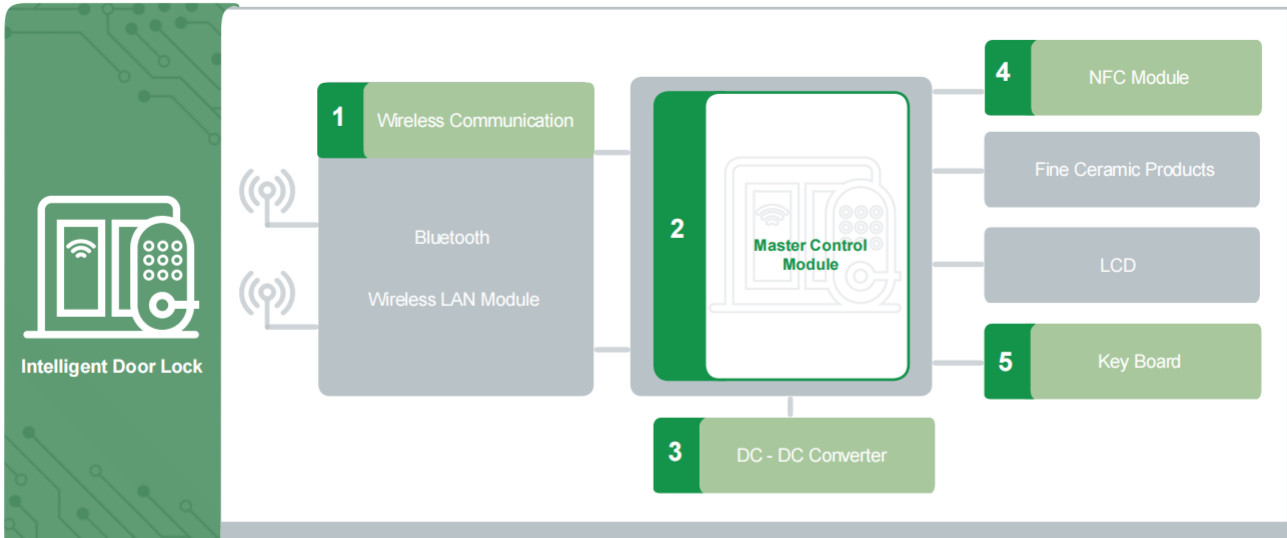
# Smart Speaker



1	SoC	
	Multilayer Chip Ferrite Bead / SZ & HZ & HPZ Series	SZ / HZ / HPZ
2	Speech Recognition & Audio	
	Multilayer Chip Audio Bead / MZA Series	MZA
	Wire Wound SMD Power Inductor / SWPA & SPH & WPN Series	SWPA / SPH / WPN
3	Wi - Fi & Bluetooth Module	
	Wire Wound Chip Ceramic Inductor / MWSD - C Series	MWSD - C
	Multilayer Chip High Q Inductor / HQ Series	HQ
	Multilayer Chip Antenna / SLDA Series	SLDA
	Multilayer Chip Balun / SLBL Series	SLBL
	Multilayer Chip LC Fitter / SLFB & SLFL Series	SLFB  SLFL
	Multilayer Chip Power Inductor / MPH Series	MPH
	Multilayer Chip LC Diplexer / SLFD Series	SLFD

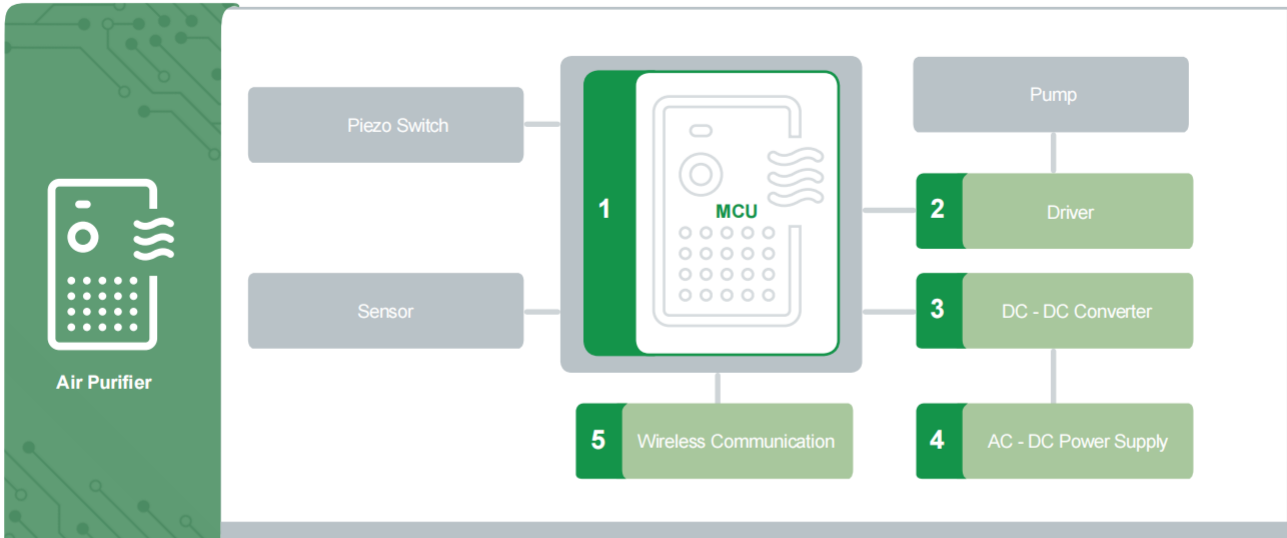
4	DC - DC Converter	
Wire Wound SMD Power Inductor / SWPA & SPH & WPN Series		SWPA / SPH / WPN
Multilayer Chip Power Inductor / MPH Series		MPH
Molded SMD Power Inductor / MWTC Series		MWTC
Molded SMD Power Inductor / MWSA - S & MWLA - S Series	 	MWSA - S MWLA - S
5	Battery	
Chip Temp. Sensing NTC Thermistor / SDNT Series		SDNT
6	AC - DC Changer	
Multilayer Chip Varistor for Surge Current Suppression / SDVL - HS Series		SDVL - HS
High Voltage Multilayer Chip Varistor for Surge Suppression / SVMH Series		SVMH
Multilayer Chip Ferrite Bead / PZ & UPZ & EPZ Series		PZ / UPZ / EPZ
Multilayer Chip Inductor for Choke / MCL Series		MCL
Multilayer Chip Power Inductor / MPH Series		MPH
Wire Wound Electronic Transformer / TWP Series		TWP
Planar Electronic Transformer / TPP Series		TPP
7	Key Board	
Multilayer Chip Varistor / SDV Series		SDV
8	LCD Panel & Touch Screen Control	
Multilayer Chip Common Mode Filter / SDMM Series		SDMM
Chip NTC Thermistor / SDNT Series		SDNT
Multilayer Chip Ferrite Bead / GZ & SZ & PZ & UPZ Series		GZ / SZ / PZ / UPZ
Wire Wound SMD Power Inductor / SWPA & SPH & WPN Series		SWPA / SPH / WPN
9	Class - D Power Amplification	
Wire Wound SMD Power Inductor / SWPA & SPH & WPN Series		SWPA / SPH / WPN
Molded SMD Power Inductor / MWTC Series		MWTC
Molded SMD Power Inductor / MWSA - S & MWLA - S Series	 	MWSA - S MWLA - S

# Intelligent Door Lock



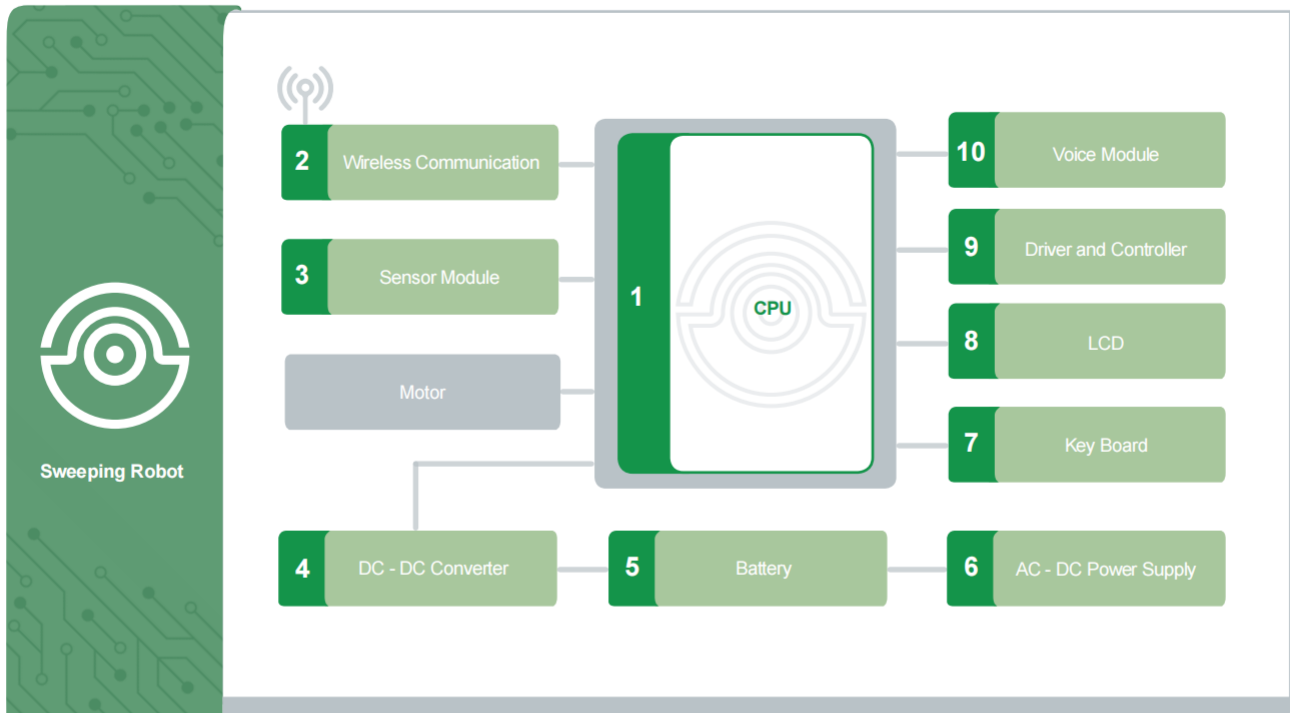
1 Wireless Communication Module	
Multilayer Chip Ceramic Inductor / SDCL Series	SDCL
Wire Wound Chip Ceramic Inductor / SDWL - C Series	SDWL - C
Multilayer Chip High Q Inductor / HQ Series	HQ
Multilayer Chip Ferrite Bead / SZ & HZ Series	SZ / HZ
Multilayer Chip Antenna / SLDA Series	SLDA
Multilayer Chip Balun / SLBL Series	SLBL
Multilayer Chip LC Fitter / SLFB & SLFL Series	SLFB / SLFL
Multilayer Chip Power Inductor / MPH & MCL Series	MPH / MCL
2 Master Control Module	
Multilayer Chip Ferrite Bead / SZ & HZ & HPZ Series	SZ / HZ / HPZ
3 DC - DC Converter	
Wire Wound SMD Power Inductor / SWPA & SPH & WPN Series	SWPA / SPH / WPN
Multilayer Chip Ferrite Bead / PZ & UPZ & EPZ Series	PZ / UPZ / EPZ
Multilayer Chip Power Inductor / MPH & MCL Series	MPH / MCL
4 NFC Module	
Wire Wound Chip Ferrite Inductor / WL - FS Series	WL - FS
Wire Wound Chip Ferrite Inductor / MWSD - FE Series	MWSD - FE
Flexible NFC Antenna MNFA Series	MNFA
5 Key Board	
Multilayer Chip Varistor for Voltage surge Suppression / SDVL - HS Series	SDVL - HS

# Air Purifier






1	MCU	
	Multilayer Chip Ferrite Bead / PZ & UPZ & EPZ Series	PZ / UPZ / EPZ
2	Driver	
	Chip Temp. Sensing NTC Thermistor / SDNT Series	SDNT
	Multilayer Chip Ferrite Bead / PZ & UPZ & EPZ Series	PZ / UPZ / EPZ
3	DC - DC Converter	
	Chip Temp. Sensing NTC Thermistor / SDNT Series	SDNT
	Multilayer Chip Ferrite Bead / PZ & UPZ & EPZ Series	PZ / UPZ / EPZ
	Wire Wound SMD Power Inductor / SWPA & SPH & WPN Series	SWPA / SPH / WPN
	Multilayer Chip Power Inductor / MPH Series	MPH
4	AC - DC Power Supply	
	Multilayer Chip Varistor for Voltage Surge Suppression / SDVL - HS Series	SDVL - HS
	High Voltage Multilayer Chip Varistor for Surge Suppression / SVMH Series	SVMH
	Wire Wound Electronic Transformer / TWP Series	TWP
	Planar Electronic Transformer / TPP Series	TPP
5	Wireless Communication Module	
	Multilayer Chip Ceramic Inductor / SDCL Series	SDCL
	Wire Wound Chip Ceramic Inductor / SDWL - C & MWSD - C Series	SDWL - C  MWSD - C
	Multilayer Chip High Q Inductor / HQ & UHQ Series	HQ / UHQ
	Multilayer Chip Ferrite Bead / SZ & HZ Series	SZ / HZ
	Multilayer Chip Antenna / SLDA Series	SLDA
	Multilayer Chip Balun / SLBL Series	SLBL
	Multilayer Chip LC Fitter / SLFB & SLFL Series	SLFB  SLFL
	Multilayer Chip Power Inductor / MPH Series	MPH

# Sweeping Robot

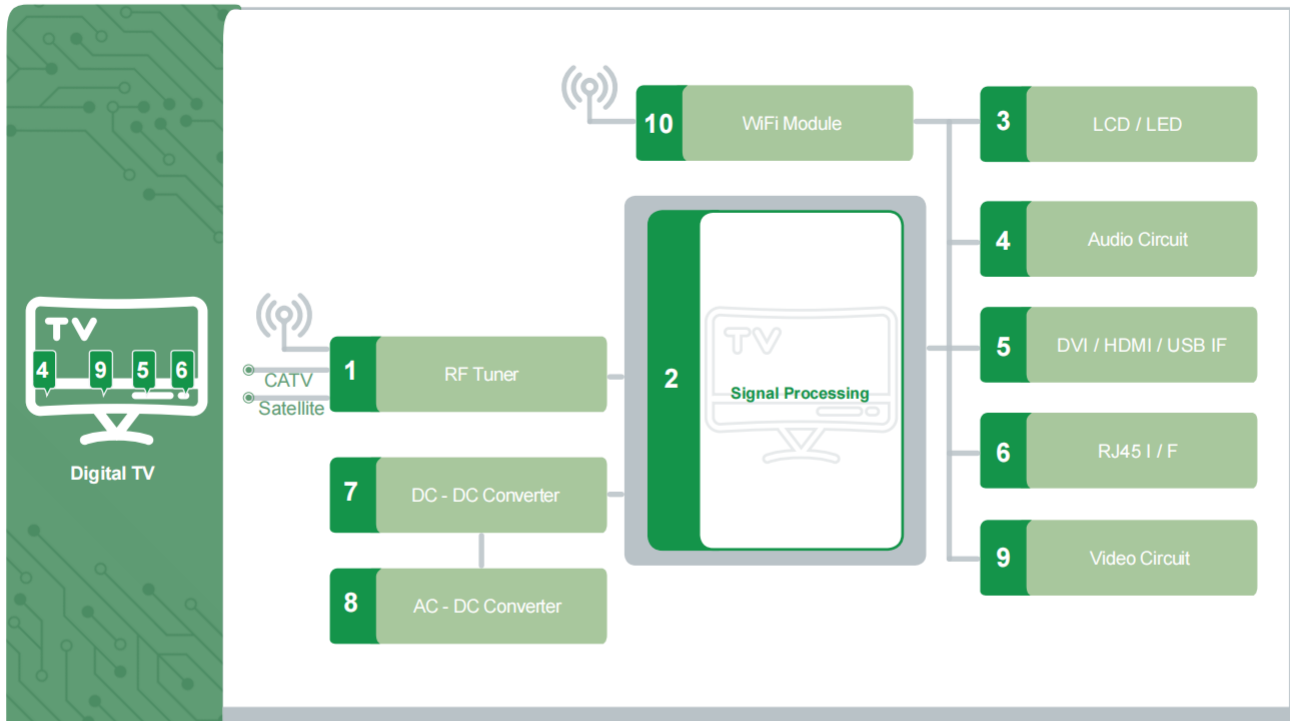












<b>1</b>	<b>CPU</b>	
	Multilayer Chip Ferrite Bead / SZ & HZ & HPZ Series	SZ / HZ / HPZ
<b>2</b>	<b>Wireless Communication Module</b>	
	Multilayer Chip Ceramic Inductor / SDCL Series	SDCL
	Wire Wound Chip Ceramic Inductor / SDWL - C & MWSD - C Series	SDWL - C  MWSD - C
	Multilayer Chip High Q Inductor / HQ & UHQ Series	HQ / UHQ
	Multilayer Chip Ferrite Bead / SZ & HZ Series	SZ / HZ
	Multilayer Chip Antenna / SLDA Series	SLDA
	Multilayer Chip Balun / SLBL Series	SLBL
	Multilayer Chip LC Fitter / SLFB & SLFL Series	SLFB  SLFL
	Multilayer Chip Power Inductor / MPH Series	MPH
<b>3</b>	<b>Sensor Module</b>	
	Multilayer Chip Ferrite Bead / GZ & SZ & PZ Series	GZ / SZ / PZ
	Wire Wound SMD Power Inductor / SWPA & SPH & WPN Series	SWPA / SPH / WPN



























4 DC - DC Converter	
Multilayer Chip Ferrite Bead / PZ & UPZ & EPZ Series	 PZ / UPZ / EPZ
Wire Wound SMD Power Inductor / SWPA & SPH & WPN Series	 SWPA / SPH / WPN
Molding Power Inductor / MWSA & MWLA & MWTC Series	 MWSA / MWLA MWTC
Multilayer Chip Inductor for Choke / MCL Series	 MCL
Multilayer Chip Varistor for Voltage Surge Suppression / SDVL - HS Series	 SDVL - HS
Chip Solid Tantalum Capacitors / TC2 & TC3 Series	 TC2 / TC3
5 Battery	
Chip Temp. Sensing NTC Thermistor / SDNT Series	 SDNT
Multilayer Chip Ferrite Bead / PZ & UPZ & EPZ Series	 PZ / UPZ / EPZ
Multilayer Chip Varistor / SDV Series	 SDV
6 AC - DC Power Supply	
Multilayer Chip Varistor for Surge Current Suppression / SDVL - HS Series	 SDVL - HS
High Voltage Multilayer Chip Varistor for Surge Suppression / SVMH Series	 SVMH
Multilayer Chip Ferrite Bead / PZ & UPZ & EPZ Series	 PZ / UPZ / EPZ
Multilayer Chip Inductor for Choke / MCL Series	 MCL
Multilayer Chip Power Inductor / MPH Series	 MPH
Wire Wound Electronic Transformer / TWP Series	 TWP
Planar Electronic Transformer / TPP Series	 TPP
7 Key Board	
Multilayer Chip Varistor / SDV Series	 SDV
8 LCD	
Multilayer Chip Varistor / SDV Series	 SDV
Multilayer Chip Ferrite Bead / SZ & HZ & PZ & UPZ Series	 SZ / HZ / PZ / UPZ
Wire Wound Chip Common Mode Choke Coil / SDCW Series	 SDCW
Wire Wound SMD Power Inductor / SWPA & SPH & WPN Series	 SWPA / SPH / WPN
9 Driver and Controller	
Chip Temp. Sensing NTC Thermistor / SDNT Series	 SDNT
10 Voice Module	
Multilayer Chip Ferrite Bead / SZ & HZ Series	 SZ / HZ
Wire Wound SMD Power Inductor / SWPA & SPH & WPN Series	 SWPA / SPH / WPN



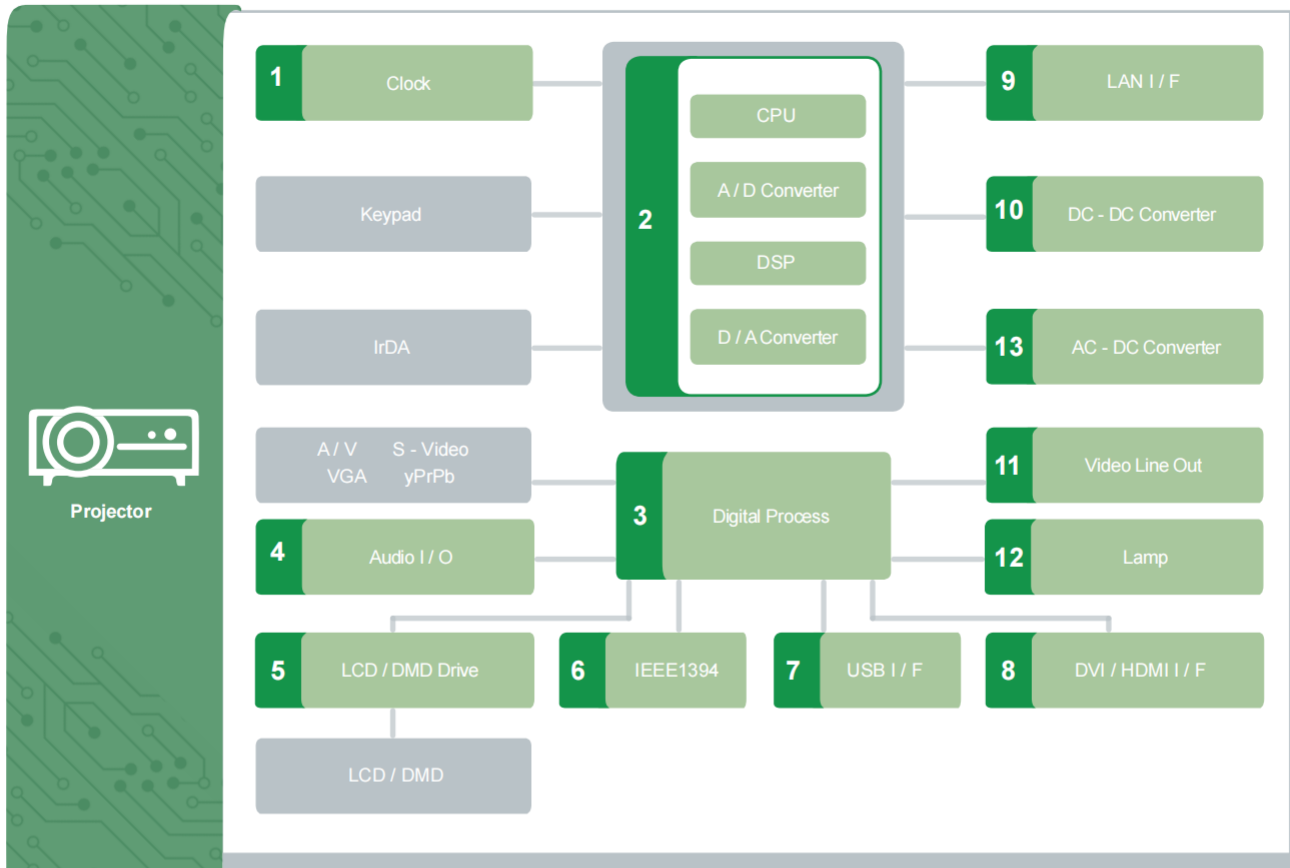
# Digital TV



















1 RF Tuner	
Multilayer Chip Ceramic Inductor / SDCL Series	 SDCL
Wire Wound Chip Balun Transformer / BW Series	 BW
2 Signal Processing	
Multilayer Chip Ferrite Inductor / SDFL Series	 SDFL
Wire Wound SMD Power Inductor / SWPA & SPH & WPN Series	 SWPA / SPH / WPN
Multilayer Chip Ferrite Bead / GZ & SZ & PZ & UPZ Series	 GZ / SZ / PZ / UPZ
3 LCD / LED	
Multilayer Chip Varistor / SDV Series	 SDV
Multilayer Chip Ferrite Bead / SZ & PZ & UPZ Series	 SZ / PZ / UPZ
Wire Wound Chip Common Mode Choke Coil / SDCW Series	 SDCW
Chip NTC Thermistor / SDNT Series	 SDNT
Wire Wound SMD Power Inductor / SWPA & SPH & WPN Series	 SWPA / SPH / WPN

4 Audio Circuit	
Multilayer Chip Ferrite Bead / SZ Series	 SZ
Multilayer Chip Varistor / SDV Series	 SDV
Wire Wound SMD Power Inductor / SWPA & SPH & WPN Series	 SWPA / SPH / WPN
Chip Solid Tantalum Capacitors / TC2 & TC3 Series	 TC2 / TC3
Wire Wound Ferrite Inductor / WL - FS Series	 WL - FS
Wire Wound Ferrite Inductor / SDWL - FW Series	 SDWL - FW
5 / 6 DVI / HDMI / USB IF / RJ45 I / F	
Wire Wound Chip Common Mode Choke Coil / SDCW Series	 SDCW
Multilayer Chip Common Mode Filter / SDMM Series	 SDMM
Multilayer Chip Varistor / SDV Series	 SDV
Multilayer Chip Ferrite Bead / PZ & UPZ Series	 PZ / UPZ
7 DC - DC Converter	
Multilayer Chip Ferrite Bead / PZ & UPZ Series	 PZ / UPZ
Wire Wound SMD Power Inductor / SWPA & SPH & WPN Series	 SWPA / SPH / WPN
Multilayer Chip Varistor for Voltage surge Suppression / SDVL - HS Series	 SDVL - HS
8 AC - DC Converter	
Multilayer Chip Varistor for Voltage surge Suppression / SDVL - HS Series	 SDVL - HS
Planar Electronic Transformer / TPP Series	 TPP
Wire Wound Electronic Transformer / TWP Series	 TWP
9 Video Circuit	
Multilayer Chip Ferrite Bead / SZ & GZ Series	 SZ / GZ
Multilayer Chip Varistor / SDV Series	 SDV
10 Wireless Communication Module	
Multilayer Chip Ceramic Inductor / SDCL Series	 SDCL
Wire Wound Chip Ceramic Inductor / MWSD - C Series	 MWSD - C
Multilayer Chip High Q Inductor / HQ Series	 HQ
Multilayer Chip Ferrite Bead / SZ & HZ Series	 SZ / HZ
Multilayer Chip Antenna / SLDA Series	 SLDA
Multilayer Chip Balun / SLBL Series	 SLBL
Multilayer Chip LC Fitter / SLFB & SLFL Series	 SLFB / SLFL
Multilayer Chip Power Inductor / MPH Series	 MPH

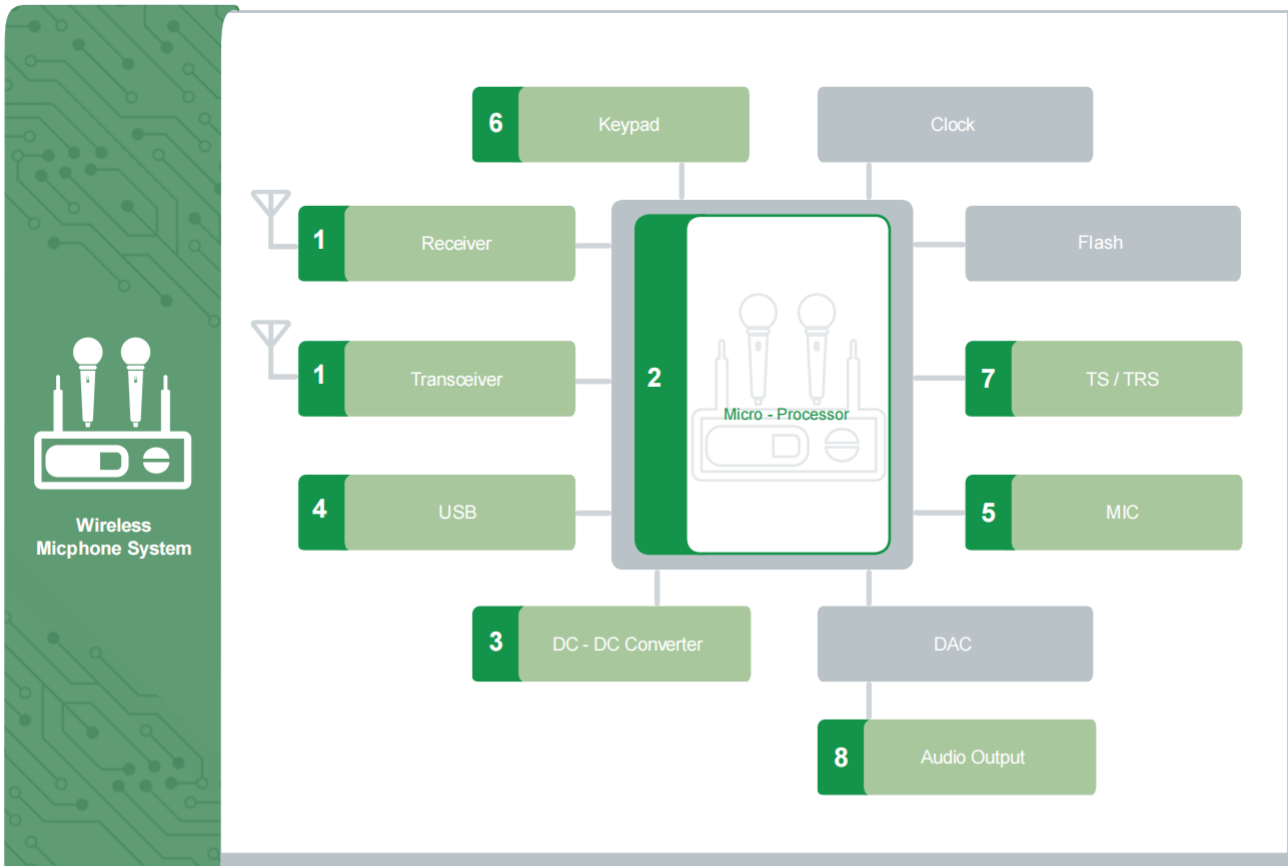
# Projector



<b>1</b>	<b>Clock</b>	
	Multilayer Chip Ferrite Bead / SZ Series	SZ
<b>2</b>	<b>CPU, DSP, A / D Converter, D / A Converter</b>	
	Multilayer Chip Ferrite Inductor / SDFL Series	SDFL
	Wire Wound Chip Ceramic Inductor / SDWL - C Series	SDWL - C
	Multilayer Chip Ferrite Bead / GZ & SZ & PZ & UPZ Series	GZ / SZ / PZ / UPZ
	Multilayer Chip High Q Inductor / HQ Series	HQ
	Chip Solid Tantalum Capacitors / TC2 & TC3 Series	TC2 / TC3
	Wire Wound SMD Power Inductors / SWPA & SPH & WPN Series	SWPA / SPH / WPN
<b>3</b>	<b>Digital Process</b>	
	Multilayer Chip Ferrite Bead / GZ & SZ & PZ & UPZ Series	GZ / SZ / PZ / UPZ
<b>4</b>	<b>Audio I / O</b>	
	Multilayer Chip Ferrite Bead / GZ & SZ Series	GZ / SZ
	Multilayer Chip Varistor / SDV Series	SDV
	Chip Solid Tantalum Capacitors / TC2 & TC3 Series	TC2 / TC3

5 LCD / DMD Drive	
Multilayer Chip Ferrite Bead / GZ & SZ & PZ & UPZ Series	 GZ / SZ / PZ / UPZ
Wire Wound Chip Ferrite Inductor / SDWL - F Series	 SDWL - F
Wire Wound SMD Power Inductors / SWPA & SPH & WPN Series	 SWPA / SPH / WPN
6 / 7 / 9 EE1394 I / F, USB I / F, LAN I / F	
Wire Wound Chip Common Mode Choke Coil / SDCW Series	 PZ / UPZ
Multilayer Chip Varistor / SDV Series	 SDCW
Multilayer Chip Ferrite Bead / PZ & UPZ Series	 SDV
8 DVI / HDMI I / F	
Wire Wound Chip Common Mode Choke Coil / SDCW - H Series	 SDCW - H
Multilayer Chip varistor / SDV Series	 SDV
Multilayer Chip Common Mode Filter / SDMM Series	 SDMM
10 DC - DC Converter	
Multilayer Chip Ferrite Bead / PZ & UPZ Series	 PZ / UPZ
Wire Wound SMD Power Inductor / SWPA & SPH & WPN Series	 SWPA / SPH / WPN
Multilayer Chip Choke Inductor / MCL Series	 MCL
Multilayer Chip Varistor for Voltage Surge Suppression / SDVL Series	 SDVL
Chip Solid Tantalum Capacitors / TC2 & TC3 Series	 TC2 / TC3
11 Video Line Out	
Multilayer Chip Varistor / SDV Series	 SDV
Chip 3 - Terminal EMI Filter / MFL Series	 MFL
Multilayer Chip Ferrite Bead / SZ Series	 SZ
12 Lamp	
Chip NTC Thermistor / SDNT Series	 SDNT
Multilayer Chip Varistor for Voltage Surge Suppression / SDVL Series	 SDVL
13 AC - DC Converter	
Multilayer Chip Varistor for Voltage surge Suppression / SDVL Series	 SDVL
Planar Electronic Transformer / TPP Series	 TPP
Wire Wound Electronic Transformer / TWP Series	 TWP

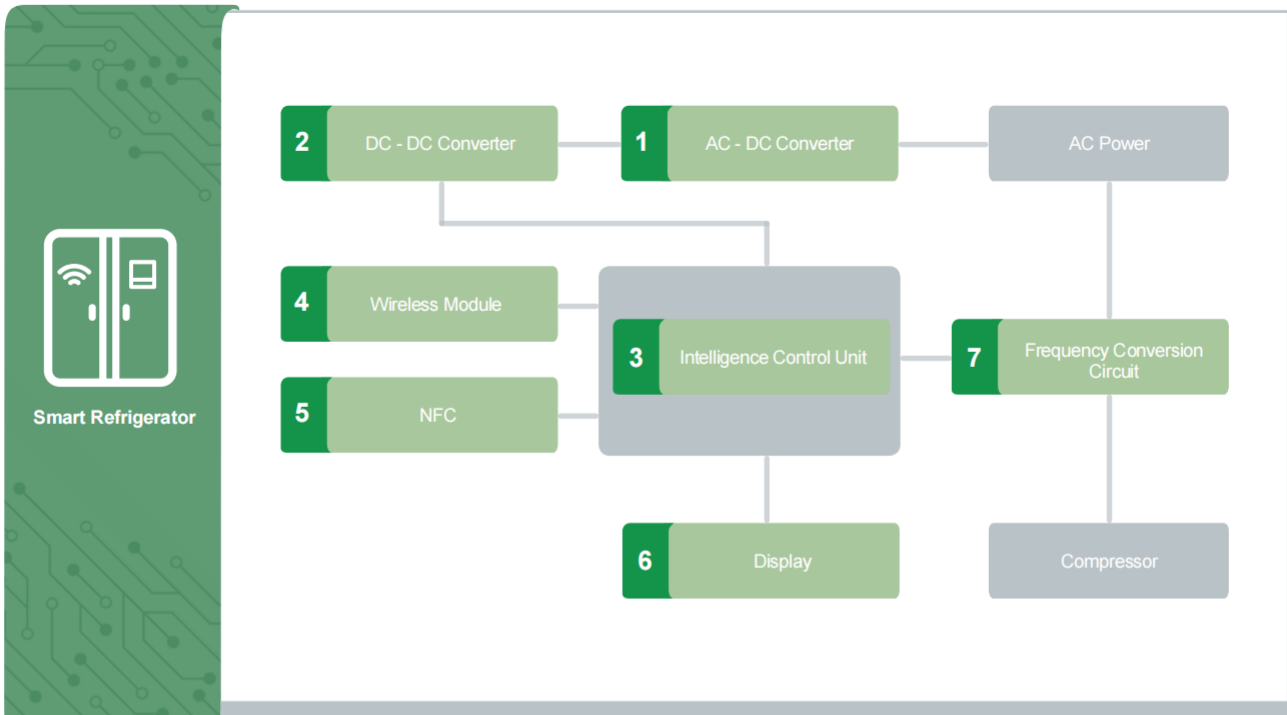
# Wireless Micphone System






















1	Transceiver ( Mic Receiver only ) & Receiver	
	Multilayer Chip Ceramic Inductor / SDCL Series	SDCL
	Wire Wound Chip Ceramic Inductor / MWSD - C Series	MWSD - C
	Multilayer Chip High Q Inductor / HQ Series	HQ
	Multilayer Chip Antenna / SLDA Series	SLDA
	Multilayer Chip LC Filter / SLFB & SLFL Series	SLFB / SLFL
2	Micro - Processor	
	Multilayer Chip Ferrite Bead / GZ & SZ & PZ & UPZ & EPZ Series	GZ / SZ / PZ / UPZ / EPZ
3	DC - DC Converter	
	Chip Temp. Sensing NTC Thermistor / SDNT Series	SDNT
	Multilayer Chip Ferrite Bead / PZ & UPZ & EPZ Series	PZ / UPZ / EPZ
	Wire Wound SMD Power Inductor / SWPA & SPH & WPN Series	SWPA / SPH / WPN
	Multilayer Chip Power Inductor / MPH Series	MPH

4 USB	
Multilayer Chip Ferrite Bead / PZ & UPZ & EPZ Series	 PZ / UPZ / EPZ
Wire Wound Chip Common Mode Choke Coil / SDCW Series	 SDCW
Multilayer Chip Varistor / SDV Series	 SDV
5 MIC	
Multilayer Chip Ferrite Bead / SZ & HZ & HPZ Series	 SZ / HZ / HPZ
Multilayer Chip Varistor / SDV Series	 SDV
Chip Solid Tantalum Capacitors / TC2 & TC3 Series	 TC2 / TC3
6 Keypad	
Multilayer Chip Varistor / SDV Series	 SDV
7 TS / TRS (Mic Receiver only)	
Multilayer Chip Ferrite Bead / SZ & HZ & HPZ Series	 SZ / HZ / HPZ
Wire Wound Chip Common Mode Choke Coil / SDCW Series	 SDCW
Multilayer Chip Varistor / SDV Series	 SDV
8 Audio Output (Mic Receiver only)	
Multilayer Chip Ferrite Bead / SZ & HZ & HPZ Series	 SZ / HZ / HPZ
Chip Solid Tantalum Capacitors / TC2 & TC3 Series	 TC2 / TC3
Multilayer Chip Varistor / SDV Series	 SDV

# Smart Refrigerator

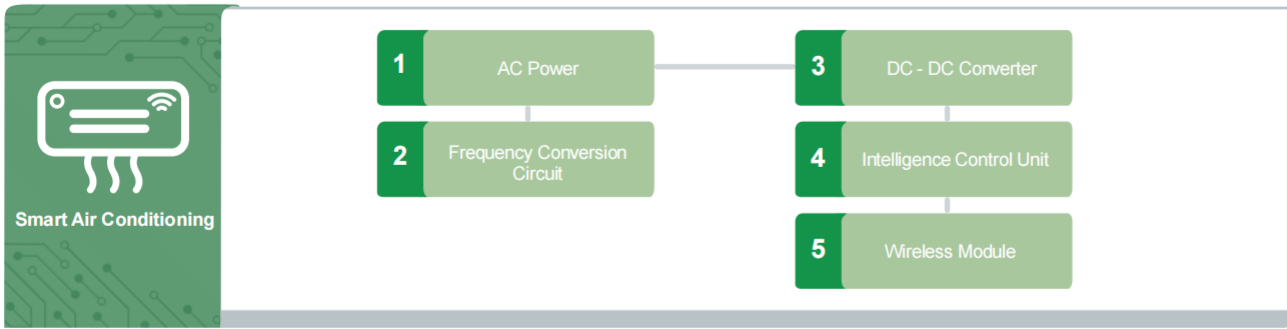





1	AC - DC Converter	
	High Voltage Multilayer Chip Varistor for Surge Suppression / SVMH Series	 SVMH
	Wire Wound Electronic Transformer / TWP Series	 TWP
	Multilayer Chip Ferrite Bead / PZ & UPZ & EPZ Series	 PZ / UPZ / EPZ
2	DC - DC Converter	
	Multilayer Chip Varistor for Voltage Surge Suppression / SDVL - HS Series	 SDVL - HS
	Multilayer Chip Ferrite Bead / PZ & UPZ & EPZ Series	 PZ / UPZ / EPZ
	Wire Wound SMD Power Inductor / SWPA & SPH & WPN Series	 SWPA / SPH / WPN
	Molded Inductor / MWTC Series	 MWTC
	Molded inductor / MWSA - S Series	 MWSA - S
3	Intelligence Control Unit	
	Multilayer Chip Ferrite Bead / PZ & UPZ Series	 PZ / UPZ
	Wire Wound SMD Power Inductor / SWPA & SPH & WPN Series	 SWPA / SPH / WPN
	Chip Temperature NTC Thermistor / SDNT Series	 SDNT

4 Wireless Communication Module	
Multilayer Chip Ceramic Inductor / SDCL Series	 SDCL
Wire Wound Chip Ceramic Inductor / MWSD - C Series	 MWSD - C
Multilayer Chip Ferrite Bead / SZ & HZ Series	 SZ / HZ
Multilayer Chip Antenna / SLDA Series	 SLDA
Multilayer Chip Balun / SLBL Series	 SLBL
Multilayer Chip LC Filter / SLFB Series	 SLFB
Multilayer Chip LC Filter / SLFL Series	 SLFL
Multilayer Chip LC Diplexer / SLFD Series	 SLFD
5 NFC	
NFC Products / FS Series	 FS
NFC Products / MNFA Series	 MNFA
Wire Wound Chip Ferrite Inductor / MWSD - F Series	 MWSD - F
Multilayer Chip Ferrite Inductor / MCL - N Series	 MCL - N
6 Display	
Wire Wound SMD Power Inductor / SWPA & SPH & WPN - HS Series	 SWPA / SPH / WPN - HS
Wire Wound Chip Common Mode Choke Coil / SDCW Series	 SDCW
Multilayer Chip Varistor / SDV Series	 SDV
7 Frequency Conversion Circuit	
Common Mode Inductance for Power Line / CWS Series	 CWS
Wire Wound SMD Power Inductor / PQ & WPE Series	 PQ / WPE

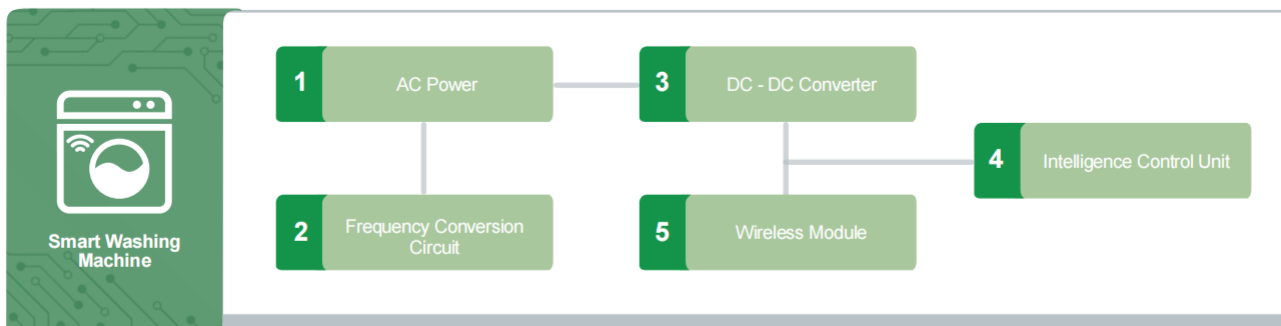


# Smart Air Conditioning



1	AC Power	
	Multilayer Chip Varistor for Voltage Surge Suppression / SDVL - HS & SVMH Series	 SDVL - HS / SVMH
	Wire Wound Electronic Transformer / TWP Series	 TWP
	Planar Electronic Transformer / TPP Series	 TPP
	Multilayer Chip Ferrite Bead / PZ & UPZ & EPZ Series	 PZ / UPZ / EPZ
2	Frequency Conversion Circuit	
	Multilayer Chip Varistor for Voltage Surge Suppression /SDVL - HS Series	 SDVL - HS
	Wire Wound SMD Power Inductor /SWPA & SPH & WPN Series	 SWPA / SPH / WPN
3	DC - DC Converter	
	Multilayer Chip Varistor for Voltage Surge Suppression / SDVL - HS Series	 SDVL - HS
	Multilayer Chip Ferrite Bead / PZ & UPZ & EPZ Series	 PZ / UPZ / EPZ
	Wire Wound SMD Power Inductor / SWPA & SPH & WPN Series	 SWPA / SPH / WPN
	Chip Solid Tantalum Capacitors / TC2 & TC3 Series	 TC2 / TC3
4	Intelligence Control Unit	
	Multilayer Chip Ferrite Bead / PZ & UPZ & EPZ Series	 PZ / UPZ / EPZ
	Wire Wound SMD Power Inductor / SWPA & SPH & WPN Series	 SWPA / SPH / WPN
	Chip Temp. Sensing NTC Thermistor / SDNT Series	 SDNT
5	Wireless Communication Module	
	Multilayer Chip Ceramic Inductor / SDCL Series	 SDCL
	Wire Wound Chip Ceramic Inductor / MWSD - C Series	 MWSD - C
	Multilayer Chip Ferrite Bead / SZ & HZ Series	 SZ / HZ
	Multilayer Chip Antenna / SLDA Series	 SLDA
	Multilayer Chip Balun / SLBL Series	 SLBL
	Multilayer Chip LC Filter / SLFB & SLFL Series	 SLFB / SLFL
	Multilayer Chip LC Diplexer & Triplexer / SLFD & SLFT Series	 SLFD / SLFT

# Smart Washing Machine

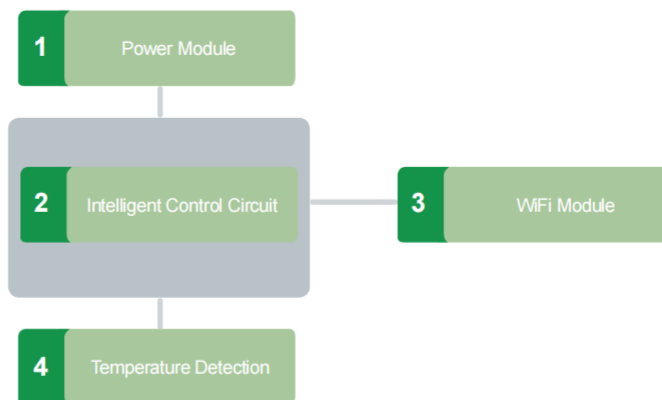


1	AC Power	
	High Voltage Multilayer Chip Varistor for Surge Suppression / SVMH Series	SVMH
	Wire Wound Electronic Transformer / TWP Series	TWP
	Planar Electronic Transformer / TPP Series	TPP
	Multilayer Chip Ferrite Bead / PZ & UPZ & EPZ Series	PZ / UPZ / EPZ
2	Frequency Conversion Circuit	
	Multilayer Chip Varistor for Surge Current Suppression / SDVL - HS Series	SDVL - HS
	Wire Wound SMD Power Inductor / SWPA & SPH & WPN Series	SWPA / SPH / WPN
3	DC - DC Converter	
	Multilayer Chip Varistor for Surge Current Suppression / SDVL - HS Series	SDVL - HS
	Multilayer Chip Ferrite Bead / PZ & UPZ Series	PZ / UPZ
	Wire Wound SMD Power Inductor / SWPA & SPH & WPN Series	SWPA / SPH / WPN
	Chip Solid Tantalum Capacitors / TC2 & TC3 Series	TC2 / TC3
4	Intelligence Control Unit	
	Multilayer Chip Ferrite Bead / PZ & UPZ Series	PZ / UPZ
	Wire Wound SMD Power Inductor / SWPA & SPH & WPN Series	SWPA / SPH / WPN
	Chip Temp. Sensing NTC Thermistor / SDNT Series	SDNT
5	Wireless Communication Module	
	Multilayer Chip Ceramic Inductor / SDCL Series	SDCL
	Wire Wound Chip Ceramic Inductor / MWSD - C & SDWL - C Series	MWSD - C  SDWL - C
	Multilayer Chip Ferrite Bead / SZ & HZ Series	SZ / HZ
	Multilayer Chip Antenna / SLDA Series	SLDA
	Multilayer Chip Balun / SLBL Series	SLBL
	Multilayer Chip LC Filter / SLFB & SLFL Series	SLFB  SLFL
	Multilayer Chip LC Diplexer & Triplexer / SLFD & SLFT Series	SLFD / SLFT
	NFC Products / FS Series	FS

# Smart Electric Rice Cooker



Smart Electric Rice Cooker

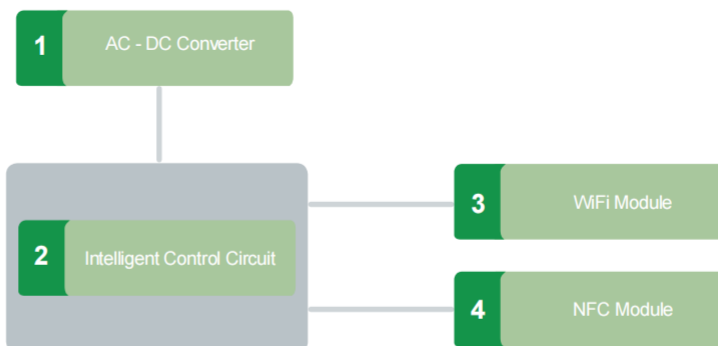


1 Power Module	
Wire Wound Electronic Transformer / TWP Series	TWP
Wire Wound SMD Power Inductor / SWPA & SPH & WPN Series	SWPA / SPH / WPN
Multilayer Chip Ferrite Inductor / SDFL Series	SDFL
Multilayer Chip Ferrite Bead / GZ & PZ & UPZ & EPZ & HPZ Series	GZ / PZ / UPZ / EPZ / HPZ
Multilayer Chip Power Inductor / MPH Series	MPH
High Voltage Multilayer Chip Varistor for Surge Suppression / SVMH Series	SVMH
Multilayer Chip Varistor for Surge Current Suppression / SDVL - HS Series	SDVL - HS
2 Intelligent Control Circuit	
Multilayer Chip Ferrite Bead / GZ & PZ & UPZ & EPZ & HPZ Series	GZ / PZ / UPZ / EPZ / HPZ
Multilayer Chip Power Inductor / MPH Series	MPH
3 WiFi Module	
Multilayer Chip Ceramic Inductor / SDCL Series	SDCL
Wire Wound Chip Ceramic Inductor / SDWL - C Series	SDWL - C
Multilayer Chip High Q Inductor / HQ Series	HQ
Multilayer Chip Antenna / SLDA Series	SLDA
Multilayer Chip Balun / SLBL Series	SLBL
Multilayer Chip LC Filter / SLFB & SLFL Series	SLFB / SLFL
Multilayer Chip LC Diplexer / SLFD Series	SLFD
4 Temperature Detection	
Chip Temp. Sensing NTC Thermistor / SDNT Series	SDNT

# Smart Coffee Machine



Smart Electric Rice Cooker



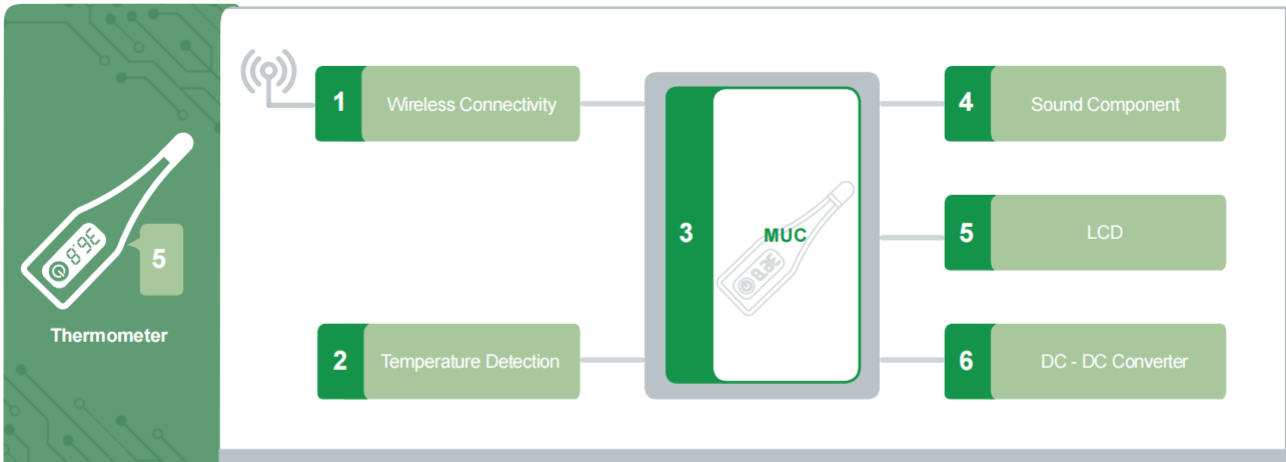
1 Power Module	
Winding electronic Transformer / TWP Series	TWP
Wire Wound SMD Power Inductor / SWPA & SPH & WPN Series	SWPA / SPH / WPN
Multilayer Chip Ferrite Inductor / SDFL Series	SDFL
Multilayer Chip Ferrite Bead / GZ & PZ & UPZ & EPZ & HPZ Series	GZ / PZ / UPZ / EPZ / HPZ
Multilayer Chip Power Inductor / MPH Series	MPH
2 Intelligent Control Circuit	
Chip NTC Thermistor / SDNT Series	SDNT
Multilayer Chip Ferrite Bead / GZ & PZ & UPZ & EPZ & HPZ Series	GZ / PZ / UPZ / EPZ / HPZ
3 WiFi Module	
Multilayer Chip Ceramic Inductor / SDCL Series	SDCL
Wire Wound Chip Ceramic Inductor / MWSD - C Series	MWSD - C
Multilayer Chip High Q Inductor / HQ Series	HQ
Multilayer Chip Antenna / SLDA Series	SLDA
Multilayer Chip Balun / SLBL Series	SLBL
Multilayer Chip LC Filter / SLFB & SLFL Series	SLFB  SLFL
Multilayer Chip Diplexer / SLFD Series	SLFD
4 NFC Module	
Multilayer Chip Ferrite Inductor / SDFL Series	SDFL
Wire Wound Chip Ferrite Inductor / WL - FS Series	WL - FS
Ferrite Sheet / FS Series	FS



# Sunlord Application Guide

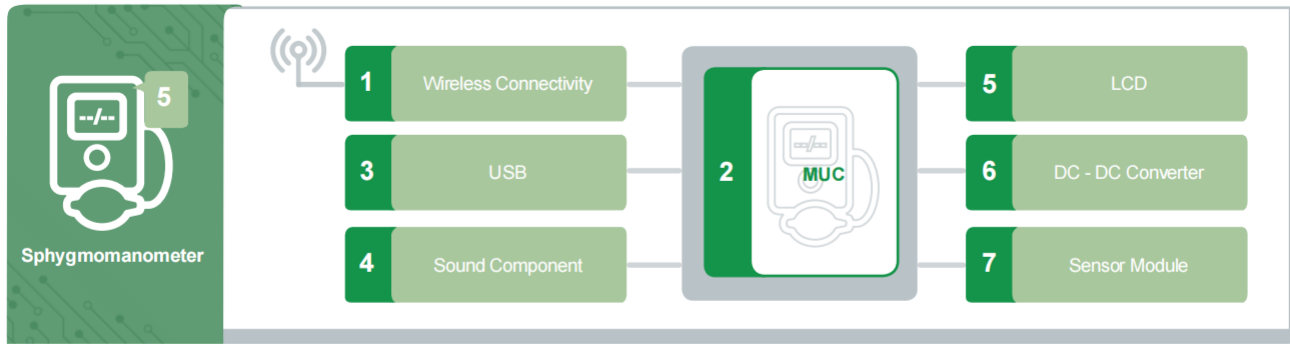
   Medical & Healthcare

# Thermometer



1	Wireless Connectivity	
	Multilayer Chip Ceramic Inductor / SDCL Series	SDCL
	Wire Wound Chip Ceramic Inductor / MWSD - C Series	MWSD - C
	Multilayer Chip High Q Inductor / HQ Series	HQ
	Multilayer Chip Ferrite Bead / SZ & HZ Series	SZ / HZ
	Multilayer Chip Antenna / SLDA Series	SLDA
	Multilayer Chip Balun / SLBL Series	SLBL
	Multilayer Chip LC Fitter / SLFB & SLFL Series	SLFB / SLFL
	Multilayer Chip Power Inductor / MPH Series	MPH
2	Temperature Detection	
	Multilayer Chip Ferrite Bead / GZ & SZ & PZ Series	GZ / SZ / PZ
3	MUC	
	Multilayer Chip Ferrite Bead / PZ & UPZ Series	PZ / UPZ
4	Sound Component	
	Multilayer Chip Ferrite Bead / SZ & HZ Series	SZ / HZ
	Multilayer Chip Varistor / SDV Series	SDV
5	LCD	
	Multilayer Chip Varistor / SDV Series	SDV
	Multilayer Chip Ferrite Bead / SZ & HZ & PZ & UPZ Series	SZ / HZ / PZ / UPZ
	Wire Wound SMD Power Inductor / SWPA & SPH & WPN Series	SWPA / SPH / WPN
6	DC - DC Converter	
	Multilayer Chip Ferrite Bead / PZ & UPZ & EPZ Series	PZ / UPZ / EPZ
	Multilayer Chip Varistor / SDV Series	SDV
	Chip NTC Thermistor / SDNT Series	SDNT

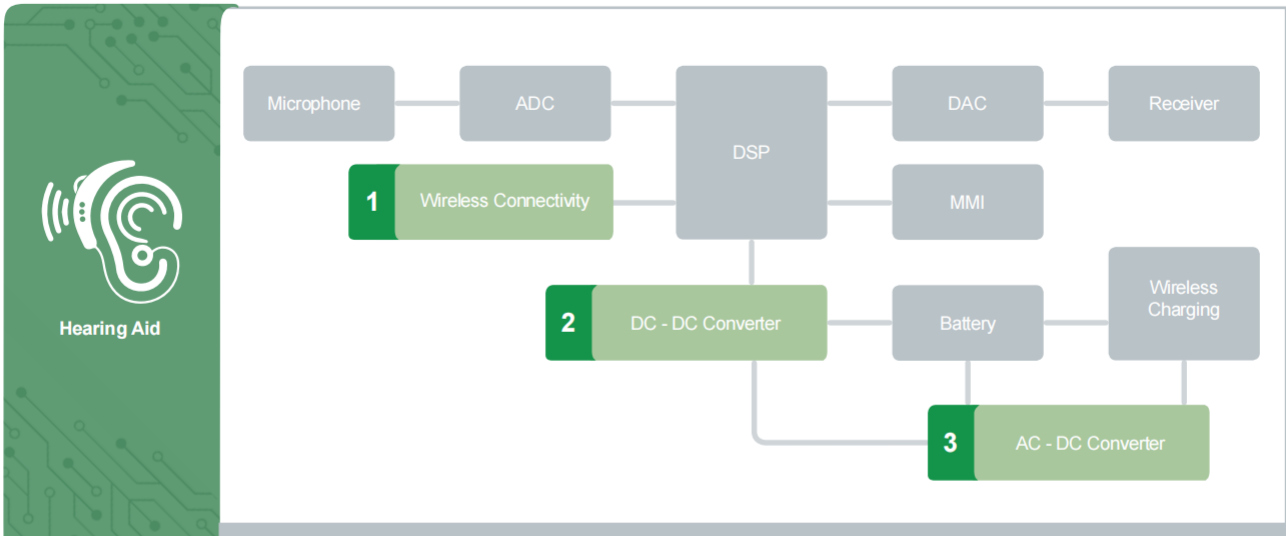
# Sphygmomanometer
















1	Wireless Connectivity	
	Multilayer Chip Ceramic Inductor / SDCL Series	SDCL
	Wire Wound Chip Ceramic Inductor / MWSD - C Series	MWSD - C
	Multilayer Chip High Q Inductor / HQ Series	HQ
	Multilayer Chip Ferrite Bead / SZ & HZ Series	SZ / HZ
	Multilayer Chip Antenna / SLDA Series	SLDA
	Multilayer Chip Balun / SLBL Series	SLBL
	Multilayer Chip LC Fitter / SLFB & SLFL Series	SLFB / SLFL
	Multilayer Chip Power Inductor / MPH Series	MPH
2	MCU	
	Multilayer Chip Ferrite Bead / GZ & SZ & PZ Series	GZ / SZ / PZ
3	USB	
	Multilayer Chip Ferrite Bead / PZ & UPZ Series	PZ / UPZ
	Wire Wound Chip Common Mode Choke Coil / SDCW Series	SDCW
4	Sound Component	
	Multilayer Chip Ferrite Bead / SZ & HZ Series	SZ / HZ
	Multilayer Chip Varistor / SDV Series	SDV
5	LCD	
	Multilayer Chip Varistor / SDV Series	SDV
	Multilayer Chip Ferrite Bead / SZ & HZ & PZ & UPZ Series	SZ / HZ / PZ / UPZ
	Wire Wound SMD Power Inductor / SWPA & SPH & WPN Series	SWPA / SPH / WPN
6	DC - DC Converter	
	Multilayer Chip Varistor for Surge Suppression / SVMH Series	SVMH
	Low Profile Power Transformer / TWP Series	TWP
	Multilayer Chip Ferrite Bead / PZ & UPZ & EPZ Series	PZ / UPZ / EPZ
	Multilayer Chip Power Inductor / MPH & MCL Series	MPH / MCL
7	Sensor Module	
	Wire Wound Chip Ferrite Inductor / WL - FS Series	WL - FS
	Multilayer Chip Ferrite Bead / GZ & SZ & PZ Series	GZ / SZ / PZ

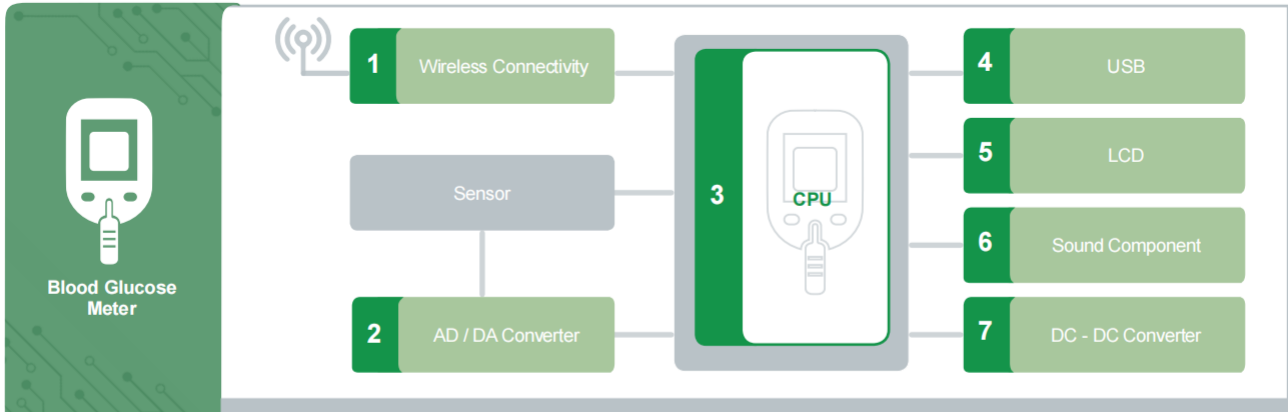


# Hearing Aid



1	Wireless Connectivity	
	Multilayer Chip Ceramic Inductor / SDCL Series	 SDCL
	Wire Wound Chip Ceramic Inductor / MWSD - C Series	 MWSD - C
	Multilayer Chip High Q Inductor / HQ Series	 HQ
	Multilayer Chip Ferrite Bead / SZ & HZ Series	 SZ / HZ
	Multilayer Chip Antenna / SLDA Series	 SLDA
	Multilayer Chip Balun / SLBL Series	 SLBL
	Multilayer Chip LC Fitter / SLFB & SLFL Series	 SLFB / SLFL
	Multilayer Chip Power Inductor / MPH Series	 MPH
2	DC - DC Converter	
	Multilayer Chip Ferrite Bead / PZ & UPZ & EPZ Series	 PZ / UPZ / EPZ
	Wire Wound SMD Power Inductor / SWPA & SPH & WPN Series	 SWPA / SPH / WPN
	Chip NTC Thermistor / SDNT Series	 SDNT
3	AC - DC Converter	
	Multilayer Chip Ferrite Bead / PZ & UPZ & EPZ Series	 PZ / UPZ / EPZ
	Wire Wound Electronic Transformer / TWP Series	 TWP

# Blood Glucose Meter



1	Wireless Connectivity	
	Multilayer Chip Ceramic Inductor / SDCL Series	SDCL
	Wire Wound Chip Ceramic Inductor / MWSD - C Series	MWSD - C
	Multilayer Chip High Q Inductor / HQ Series	HQ
	Multilayer Chip Ferrite Bead / SZ & HZ Series	SZ / HZ
	Multilayer Chip Antenna / SLDA Series	SLDA
	Multilayer Chip Balun / SLBL Series	SLBL
	Multilayer Chip LC Fitter / SLFB & SLFL Series	SLFB / SLFL
	Multilayer Chip Power Inductor / MPH Series	MPH
2	AD / DA Converter	
	Multilayer Chip Ferrite Bead / PZ & UPZ & EPZ Series	PZ / UPZ / EPZ
	Chip NTC Thermistor / SDNT Series	SDNT
3	CPU	
	Multilayer Chip Ferrite Bead / PZ & UPZ Series	PZ / UPZ
4	USB	
	Multilayer Chip Ferrite Bead / PZ & UPZ Series	PZ / UPZ
	Wire Wound Chip Common Mode Choke Coil / SDCW Series	SDCW
5	LCD	
	Multilayer Chip Varistor / SDV Series	SDV
	Multilayer Chip Ferrite Bead / SZ & HZ & PZ & UPZ Series	SZ / HZ / PZ / UPZ
	Wire Wound SMD Power Inductor / SWPA & SPH & WPN Series	SWPA / SPH / WPN
6	Sound Component	
	Multilayer Chip Ferrite Bead / SZ & HZ Series	SZ / HZ
	Multilayer Chip Varistor / SDV Series	SDV
7	DC - DC Converter	
	Multilayer Chip Ferrite Bead / PZ & UPZ & EPZ Series	PZ / UPZ / EPZ
	Wire Wound SMD Power Inductor / SWPA & SPH & WPN Series	SWPA / SPH / WPN
	Chip NTC Thermistor / SDNT Series	SDNT

Product Selection Guide



Application Guide



CATALOG 2022 - 2023 for Sensitive Components



CATALOG 2022 - 2023 for Transformer



CATALOG 2022 - 2023 for Inductor



CATALOG 2022 - 2023 for Capacitor



2022 - 2023 Automotive Products Selection Guide



CATALOG 2022 - 2023 for NFC Products



CATALOG 2022 - 2023 for RF Components



CATALOG 2022 - 2023 for EMC Components



# Sunlord

expert in e components

## Application Guide



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