

IO-Power IOP-IP66-WMB-L1 Series

Outdoor High & Low Temperature IP66 Wireless Mobile Surveillance System

- With Multi-features Integration and Extension of Function -



The IOP-IP66-WMB-L1 Series which is based on the 『Outdoor High and Low Temperature Explosion-Proof DC UPS Power Supply System』 and 『EL-N / ML-N Wireless Transmission System』, And finally install the 『Network lightning surge / DC lightning surge protector』 according to the lightning surge needs and so on, so it is integrate the core special functions of various devices and achieve the design of a full set of system independent box operation.

The IOP-IP66-WMB-L1 series has an extended range of functions due to the need to accommodate a variety of special projects due to the outdoor wireless mobile surveillance system including:

- Plug-in USSP expansion: outdoor high temperature explosion-proof DC UPS power supply system total capacity
- Plug-in DAPS expansion: a parallel solar power system
- Plug-in R200 expansion: outdoor 4G-LTE wireless monitoring transmission and WiFi Internet system
- Plug-in DAPI expansion: 12V DC to 24V AC power supply
- Plug-in high-power DPoE expansion: 12V DC to 48V PoE-72W Ethernet power supply



- Plug-in standard DPoE expansion: 12V DC to 48V PoE-30W Ethernet power supply
- Plug-in O4PSW expansion: 12Vdc to 48Vdc 4Port PoE Switch power supply
- Plug-in DAPS expansion: parallel redundant power supply and a parallel DAPS solar DC UPS power supply system
- Plug-in SCBP expansion: Input 12 ~ 24Vdc series boost to 48 ~ 96Vdc 400W power supply
- Plug-in BBVC expansion: can be directly supplied to the NB computer or through the vehicle power to charging the DC UPS
- Plug-in SELP extension expansion: RJ-45 Ethernet lightning surge protector
- Plug-in LPDC extension expansion: 1DC to 4DC DC lightning surge protector

Outdoor High & Low Temperature IP66 Wireless Mobile Surveillance System 『 Introduction to various external interfaces 』

- Surveillance camera screw holes (3 screw holes)
- Expandable plug-in device screw holes (2 screw holes)
- Fixing bracket (2 screw holes) for attaching the antenna fixing rod

- N-Type antenna connector * 4
- Support for built-in EL-N-1 / EL-N-2 wireless devices
- According to the application needs with different 2 kinds of outdoor antenna

- Surveillance camera screw holes (3 screw holes)
- Expandable plug-in device screw holes (2 screw holes)
- Fixing bracket (2 screw holes) for attaching the antenna fixing rod

- Input DC power to charge the DC UPS
- Input voltage 15 ~ 28Vdc / 4.5A ~ above
(Input power wattage more than 1.3 times the load equipment; load total power consumption limited to 72W or less)

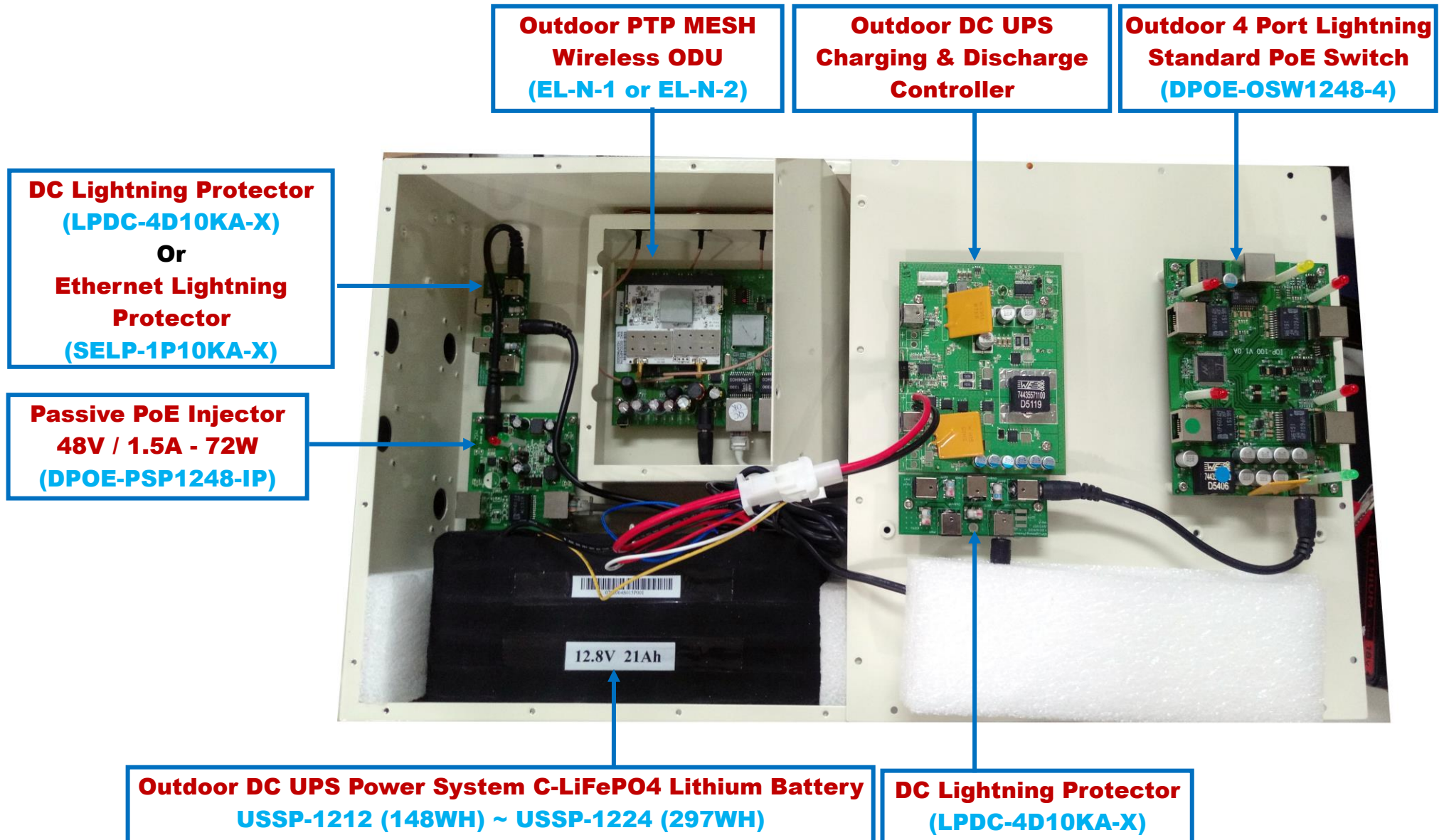
AC to DC Power Adapter
Input 100~240VAC/1.5A
Output 15~28Vdc/4.5A~

- DC12Vdc / 6A instantaneous output by the DC UPS discharge 72W Max
- External 12Vdc load equipment can be powered directly
- It is mainly to insert the input power supply port below to supply power to the equipment in the shell. **It also plays the role of DC UPS power supply switch**

- 4 units IP68 Waterproof Cable Head
- Provided to the Built-in Equipment Output Port:
→EL-N-1 / 2-8W: PTP MESH / AP / STA Wireless Device
→O4PSW-60W: Lightning area dedicated 4Port PoE Switch
→DPOE-72W: Passive Power Ethernet
→LPDC / SELP: DC / RJ-45 Lightning Surge Protector

- Input power is supplied to the equipment in the enclosure Shell built-in equipment include:
- EL-N-1 / 2-8W: PTP MESH / AP / STA wireless device
 - O4PSW-60W: Lightning area dedicated 4Port PoE Switch
 - DPOE-72W: Passive Mode Power over Ethernet
 - LPDC / SELP: DC / RJ-45 Lightning surge protector

Outdoor High & Low Temperature IP66 Wireless Mobile Surveillance System 『 Introduction to Various Internal Integration Product Portfolio 』



Outdoor High & Low Temperature IP66 Wireless Mobile Surveillance System 『 Introduction to a variety of external fixed 』



Stainless steel holder can be used:
 1. Pole / pole strap fixed way
 2. Pole locking fixed way
 3. Wall screw fixation



Plug-in expansion device screws



Plug-in expansion device screws












Plug-in expansion device screws














Plug-in expansion device screws

IOP-IP66-WMB-L1 Series of integrated products


Model	E1SO-SP12-PSXD-00X	E2OB-SP21-PSED-26X	E15N-SP12-PSXD-29D	E2BN-SP21-PSED-27B
Outdoor Wireless ODU 	PCBA-EL-N-1 PTP MESH / AP / STA (Client) One RF Module	PCBA-EL-N-2 PTP MESH / AP / STA(Client) Two RF Modules	PCBA-EL-N-1 PTP MESH / AP / STA(Client) One RF Module	PCBA-EL-N-2 PTP MESH / AP / STA(Client) Two RF Modules
Outdoor Antenna 1 	IOP-OANMO-DB0536030 2.4/5.8GHz Dual Band Omni Antenna Signal Cover 150 ~ 300m	IOP-OANMO-DB0536030 2.4/5.8GHz Dual Band Omni Antenna Signal Cover 150 ~ 300m	IOP-PANFO-5M2001010 5.8GHz 20dBi MIMO Panel Antenna Point to Point Distance 6Km	IOP-PANJO-5M1602422 5.8GHz 16dBi MIMO Panel Antenna Point to Point Distance 2.5Km
Outdoor Antenna 2 	Non	IOP-PANJO-5M1602422 5.8GHz 16dBi MIMO Panel Antenna Point to Point Distance 2.5Km	Non	IOP-PANFO-5M2001010 5.8GHz 20dBi MIMO Panel Antenna Point to Point Distance 6Km
N-type antenna connector 	IOP-MNPNJ-ST006G-T N-type spring antenna connector N-type Female to N-type Female	Non	Non	Non
Outdoor DC UPS (Battery) 	PCBA-USSP-1212 148WH @ 11.6Ah = 888VA	PCBA-USSP-1221 268WH @ 21Ah = 1612VA	PCBA-USSP-1221 268WH @ 21Ah = 1612VA	PCBA-USSP-1221 268WH @ 21Ah = 1612VA
PoE PSE Mode 	PCBA- DPOE-PSP4872 Passive Mode PoE-48V-72W	PCBA- DPOE-PSP4872 Passive Mode PoE-48V-72W	PCBA- DPOE-PSP4872 Passive Mode PoE-48V-72W	PCBA- DPOE-PSP4872 Passive Mode PoE-48V-72W
Surge PoE PSE Switch 	PCBA-DPOE-OSW1248-4 4Port PoE Switch - 60W(75W Max)	PCBA-DPOE-OSW1248-4 4Port PoE Switch - 60W(75W Max)	PCBA-DPOE-OSW1248-4 4Port PoE Switch - 60W(75W Max)	PCBA-DPOE-OSW1248-4 4Port PoE Switch - 60W(75W Max)

<p>SELP-1P10KA-X RJ-45 Lightning Protector</p> 	Non		PCBA- SELP-1P10KA-X Single Ethernet Lightning Protector 1 Port Lightning10KA Protection	Non		PCBA- SELP-1P10KA-X Single Ethernet Lightning Protector 1 Port Lightning10KA Protection
<p>LPDC-4D10KA-X DC Lightning Protector</p> 	PCBA- LPDC-4D10KA-X 1DC to 4DC Lightning Protector 1 DC to 4DC Lightning 10KA Protection		PCBA- LPDC-4D10KA-X 1DC to 4DC Lightning Protector 1 DC to 4DC Lightning 10KA Protection	PCBA- LPDC-4D10KA-X 1DC to 4DC Lightning Protector 1 DC to 4DC Lightning 10KA Protection		PCBA- LPDC-4D10KA-X 1DC to 4DC Lightning Protector 1 DC to 4DC Lightning 10KA Protection
<p>Input Charge Input 15~28V Charge 輸入 15~28Vdc 充電</p>	AC to DC Power Adapter: Input AC 100 ~ 260V / 1.5A ~ 2.5A 50 / 60Hz & Output DC 15V ~ 32V / 4.5 ~ 7.9A (inclusive) or more This product with the AC 100 ~ 240V / 1.5A ~ 2.5A DC DC 19 ~ 20V / 4.7A ~ 6.0A Power Adapter					
<p>Output Discharge Output 12V Discharge 輸出 12V/6A 放電</p>	DC 11.8V~14.4V +-5% / 3.5A (6A around 75W/H Max)					
<p>Input Power Supply Input Supply 12V/6A 輸入供電 12V/6A</p>	DC 11.8V~14.4V +-5% / 3.5A (6A around 75W/H Max)					
<p>LED Display Discharge & Charging 放電中 & 充電中</p>	Discharge: Green LED steady light / Green LED flashes, the battery in 12.8V below the low voltage warning status Charging: Red LED flashes once a second / Red LED is steady light, the battery is fully charged / Red LED flashes 2 times a second, representing abnormal warning status DC UPS has designed self-healing detection recovery function, abnormal warning state will be about 10 seconds self-healing detection, if not returned to normal operation after 30 seconds, turn off and remove the power supply					
<p>Support Battery Type and Safety Protection</p>	C-LiFePO4 Lithium Batteries; Use pressure type explosion-proof battery design					
<p>Chassis / Waterproof / Accessories</p>	IP66 sealed Iron shell with anti-oxidation coding and anti-fire IP68 high temperature waterproof connector					
<p>Size</p>	340mm(L) x 125mm(W) (holder 185mm) x 320mm(H)					
<p>Weight</p>	Around 6.0Kg (holder 6.5Kg)	Around 7.2Kg (holder 7.7Kg)	Around 7.0Kg (holder 7.5Kg)	Around 7.4Kg (holder 7.9Kg)		
<p>Operating Temperature / Storage Temperature</p>	-35°C~+75°C / It is recommended to store at + 20°C ~ + 30°C ambient temperature					
<p>Rel. Humidity</p>	10~95%RH					
<p>Storage Time</p>	Do not wake the system can store 12 months (after you wake the system, each 3 months charging 1 times; Please fully charging battery in first times to use)					

IOP-IP66-WMB-L1 Series have extended the expansion of various functional products

Plug-in expansion DC UPS system 1	Non	IOP-USSP-1212-07A 148WH @ 11.6Ah = 888VA 	IOP-USSP-1212-07A 148WH @ 11.6Ah = 888VA 	IOP-USSP-1212-07A 148WH @ 11.6Ah = 888VA 
Plug-in expansion DC UPS system 2	Non	Non	IOP-USSP-1212-07A 148WH @ 11.6Ah = 888VA 	IOP-USSP-1212-07A 148WH @ 11.6Ah = 888VA 
Plug-in expansion DC UPS system 3	Non	Non	Non	IOP-USSP-1206-03A 74WH @ 5.8Ah = 445VA 
Plug-in expansion DC UPS system 4	Non	Non	Non	Non
Plug-in products ■ Outdoor waterproof products	Non	IOP-DAPI-12242A-1 12VDC to 24VAC 60W Power Invertor 	IOP-DAPS-I3018A-1 Outdoor Automatic Selection Power Supply Parallel Introduction Protector: 12~24VDC 	IOP-SCBP-D12048-1 Outdoor 12VDC Series Connection Boost Protector 
	Non	Non	IOP-LPDC-4D10KA-X 1DC to 4DC Lightning Protector 1 DC to 4DC Lightning 10KA Protector 	IOP-DAPI-24242A-1 24VDC to 24VAC Power Invertor 



	Non	Non	Non	<p>IOP-LPDC-4D10KA-X 1DC to 4DC Lightning Protector 1 DC to 4DC Lightning 10KA Protector</p> 
Installation	<p>1. Street lamp pole mount 2. Upright pole mount 3. Wall mount installation</p>			
Warranty	<p>The entire operating system provides 1 year warranty service.</p>			

Note 1: Battery Capacity is +/- 5%.

Note 2: Product specifications change, without notice, consultation with agent or dealer before buying the latest specifications.

Note 3: detect the temperature reached -30°C, start the red LED have low temperature warning, reach low temperature -35 °C, a start-stop system function will enable, when temperatures returned to above -30°C, normal operation will resume.

Note 4: detect the temperature reached +70°C, start red LED have high temperature warning, reach high temperature +75°C, a start-stop system function will enable, when temperatures back below +70°C temperature, normal operation will resume.

** Note 5: The discharge wattage of the DC UPS system will vary depending on whether the battery has a high or low voltage (with or without full charge) and whether it is used at the same time as charging and discharging. The following are the differences between the products Status of the proposed discharge amperage wattage (with the maximum power consumption of equipment assessment reference):

5-1. Uncharged state, only battery direct discharge, the battery is fully charged state use: The maximum discharge Amp & Wattage is 6A / 75W.

5-2. Uncharged state, only battery direct discharge, the battery is not fully used state: The maximum discharge Amp & Wattage is 3.5A / 40W.

5-3. Uncharged state, only battery direct discharge, the battery is not fully charged and the low voltage state is used. The maximum discharge Amp & Wattage is 3A / 36W.

5-4. Charging and discharging operation at the same time, the battery is fully charged state use: The maximum discharge Amp & Wattage is 6A / 75W.

5-5. Charging and discharging operation at the same time, the battery is not fully charged used state: The maximum discharge Amp & Wattage is 4A / 50W.

5-6. Charging and discharging operation at the same time, the battery is not fully charged and the low voltage state is used: The maximum discharge Amp & Wattage is 3.5A / 40W.