

Xatellite PWR-L

IP67 Industrial Grade Outdoor Dual 5G CPE



BGP4+ Available

With the powerful Quad-Core ARM V8 CPU and Dedicated Network Processing Unit Acceleration in place, BGP4+ is now at your disposal.

Dual 5G module NR SA / NSA

Supports up to 28 5G frequency bands and has dual module for an active-active configuration, enabling Industrial business expansion.

NSA

5G 

SA

8 POE+ Output Ports

With its 8 × M12 POE+ power output ports, it delivers ample power and network connectivity to end devices, such as cameras and machines.

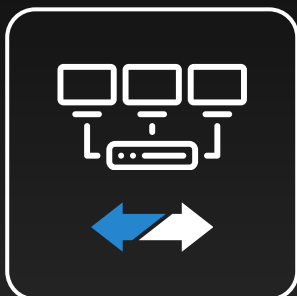


IP67 Waterproof

Used in industrial settings within harsher environments, providing durability and protection with its Aluminum Alloy Cover

IP67

SD-WAN Ready



Enhance your SD-WAN deployment with the power of Multi Ethernet WANs. You can leverage all available WAN connections to ensure uninterrupted connectivity and keep your business operations running smoothly.

Network Bonding, Failover

Bonds multiple networks together, including Multi-WAN capabilities, to create higher bandwidth. It seamlessly switches between connections within milliseconds for low latency and safe operation.



Use Cases



Smart Lamp Pole



Traffic Light,
Outdoor surveillance



Smart ports Crane
control, monitoring,
outdoor AGV



Maritime boat
management

WIRELESS SPECIFICATION



CELLULAR NETWORK

Communication Standard: 4G LTE Transmission Rate:
3GPP Release 16 NSA/SA
operation Sub-6 GHz

Applicable Network :
5G NR SA, 5G NR NSA
LTE-FDD, LTE-TDD, WCDMA

5G NR Transmission Rate:
5G SA Sub-6:

- Downstream 2.4Gbps
- Upstream 900 Mbps

5G NSA Sub-6:

- Downstream 3.4 Gbps
- Upstream 550 Mbps

CAT-19 Downstream 1.6 Gbps
CAT-18 Upstream 200 Mbps
Network Frequency Band:
5G: Frequency Locking available
N1/N2/N3/N5/N7/N8/N12/N13/N14/
N18/N20/N25/N26/N28/N29/N30/
N38/N40/N41/N48/N66/N70/N71/
N75/N76/N77/N78/N79
4G: Frequency Locking available
B1/B2/B3/B4/B5/B7/B8/B12/B13/
B14/B17/B18/B19/B20/B25/B26/B28/
B29/B30/B32/B34/B38/B39/B40/
B41/B42/B43/B46/B48/B66/B71
Antenna:
8 × 5G antennas (SMA)

Wi-Fi

Wi-Fi Standard:
Wi-Fi 6
802.11 a/b/g/n/ac/ax

Transmission Rate:
2×2 MU-MIMO WiFi 2.4GHz radio
Up to 574Mbps physical data rate
2×2 MU-MIMO WiFi 5GHz radio
Up to 1210Mbps physical data rate

Modulation Technology:

802.11 b: DSSS (DBPSK, DQPSK, CCK)
802.11 a/g/n: OFDM (BPSK, QPSK, 16-QAM, 64-QAM)
802.11 ac: OFDM (BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM)
802.11 ax: OFDM (BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM, 1024-QAM)

Operating Frequency:
2412MHz ~ 2462MHz
5180MHz ~ 5825MHz

Wi-Fi Connections:
Max 512 × Wi-Fi connections
(concurrently)

Antenna:
2 × Dual bands Wi-Fi antennas (SMA)

TECHNICAL SPECIFICATION

Hardware
CPU: 64-bit Quad-Core ARMv8
NPU: Twelve-Threaded network processing unit
Form Factor: Aluminum alloy waterproof case
Mounting Option: 75 × 75 mm VESA mount
I/O:
8 × GE M12 Ethernet ports
(Adapted cables to RJ45 available)
1 × Micro SD Slot
2 × Dual Micro SIM Trays, 4 × SIM cards Max
(Double SIM, Double Pass /
*Dual SIM, Single Pass, Single Standby /
*Quad SIM, Double Pass, Double Standby)
1 × Reset / Factory Restore Button

Functions
Network Features:
Support RIPv1, RIPv2, RIPng, OSPFv2, OSPFv3,
BGP-4, BGP-4+, Policy-based Routing, NAT, PAT,
BFD, MPLS, Multi-WAN, IPv6/IPv4 dual stack, SRv6,
802.1Q VLAN, VxLAN, STP, RSTP, MSTP, QinQ over
IP, MQTT Broker, etc.

Security:

Support SIM PIN protection, Firewall, Mac
address access control, IP address access
control, MACsec, Wi-Fi Encryption authentication

VPN:

Support IPsec VPN, DMVPN, GRE, WireGuard,
EVPN-VXLAN, IPfiber(L2 overlay)

GNSS:

Support GPS, Beidou, Galileo(Optional)

Administrator maintenance:

SSH, WebUI, SDM (Remote WebUI/Console access)

Cloud Central Management: Yes

Performance
Routing throughput (Max) : 6Gbps
IPSecVPN throughput (Max) :
AES-128-SHA1: 540 Mbps
AES-256-SHA256: 500 Mbps
IPfiber throughput (Max) :
Standard Encryption (AES-128-GCM-SHA256): 680 Mbps
Enhanced Encryption (AES-256-GCM-SHA384): 500 Mbps
MACsec throughput (Max) :
GCM-AES-128: 915 Mbps
GCM-AES-256: 880 Mbps

Operating
Temperature:
-30°C ~ 75°C
-40°C ~ 85°C (Extended)
Humidity:
5% ~ 100%
non-condensing
Storage
Temperature:
-40°C ~ 85°C

Ingress Protection Rating IP67

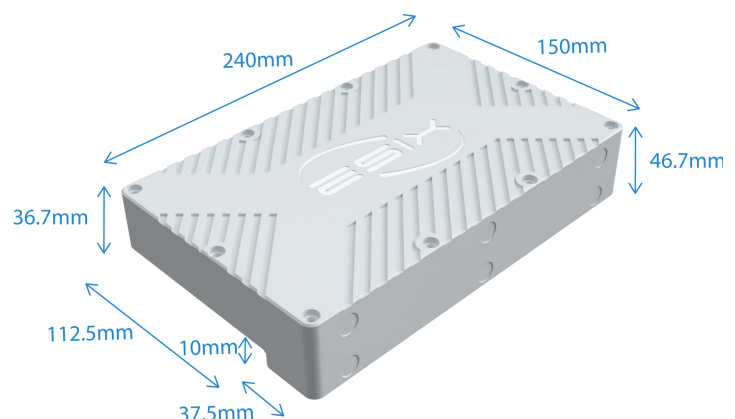
Power Input M12 5-pin industrial power port 24 ~ 56V DC
Available adaptors
- None (default)
- 48V/144W adaptor, 138W PoE+ output (optional)
- 48V/300W, IP65 adaptor, 240W PoE+ output (optional)

Power Consumption 8.5W: Wi-Fi6 Off, 5G modules On
(no data flow), No PoE output
16.5 W: Wi-Fi6 On, 5G modules On
(iperf3 via Wi-Fi6 & 5G Modem), No PoE
output

Power Output 240W: 8 × PoE+ ports
(Integrated GUI manageable included)

Weight (body): ≈ 1960g

Dimension 240 x 150 x 46.76mm



There might be colour aberration between picture and each existence

ORDERING INFORMATION

SKU	Packing List
X7610-55-P00-144W (Reference: Xatellite PWR-L)	- Xatellite PWR-L router body - Dual 5G Modems inside - AC/DC Adaptor, 51V DC/Max 127W-M12 (EP-D-127M) × 1 - M12-RJ45 Waterproof Cords (EW-M12-R) (1 meter) × 2 (Full capacity 8) - M12 Waterproof Cap (EW-M-D) × 8 - SMA Waterproof Cap (EW-S-D) × 2 *5G Antenna (optional: 2 Mushroom or 8 SMA antennas) is not included. *Wi-Fi Antenna (optional: 2 Wi-Fi Antennas) is not included.
Accessories	
EP-I-300M	AC/DC Adapter (IP65) , 48V DC/Max 300W for Full POE+ Output - M12
EP-D-144M	AC/DC Adapter, 48V DC/Max 144W - M12
EA-5M-2	External Waterproof 5G Mushroom Antenna (2 meters)
EA-5M-3	External Waterproof 5G Mushroom Antenna (3 meters)
EA-S-W	SMA Wi-Fi Antenna
EA-S-5	SMA 5G/4G/GNSS Antenna
EW-M12-R	M12-RJ45 Waterproof Cord for Ethernet Connection (1 meter)
EW-M-D	M12 Waterproof Cap
EW-S-D	SMA Waterproof Cap
EI-V75	VESA 75 × 75 mm Mount Kit
EW-M12-S	M12-SFP Waterproof Connector
EW-M12-DM12	Dual M12 heads ethernet cable (0.5m)(for connecting PWR-L and Xtation)
EW-M12-4PIN	M12 female cable connector (2+PE, unshielded, moulded on the cable, IP68)

*Any special requirements, please contact to sales representative.

ESIX STANDARD WARRANTY POLICY



STANDARD HARDWARE/SOFTWARE WARRANTY POLICY

eSIX warrants solely to the original end-user purchaser ("Purchaser") that hardware ("Hardware") purchased from eSIX or our Authorized Partners will be free from defects in materials and workmanship when used within the limits set forth in the documentation (data sheet and user manual) for a period of twelve (12) months, starting from the time of shipment of the Hardware, or the date the Hardware was purchased according to sales registration, whichever is later. (If a 36-month warranty is required, please contact the sales representative.)

This limited warranty is non-transferable and extends only to the original end-user purchaser who acquired the Hardware from an Authorized Partner who has the right to sell in the end-user's territory. eSIX explicitly disclaims any warranty obligations for Hardware that is sold outside of the assigned territory of an Authorized Partner. Your exclusive remedy and eSIX' entire liability under this limited warranty will be for eSIX, at its option, to (a) repair the Hardware with new or refurbished parts, or (b) replace the Hardware with a reasonably available equivalent new or refurbished eSIX Hardware. Any repaired or replacement Hardware will be warranted for the remainder of the original Warranty Period or thirty (30) days, whichever is longer. All Hardware and parts that are replaced become the property of eSIX.

EXCLUSION AND LIMITATIONS

This limited warranty does not apply if: (a) the Hardware assembly seal has been removed or damaged, (b) the Hardware has been altered or modified, except by eSIX, (c) the Hardware damage was caused by use with non eSIX Hardware, (d) the Hardware has not been installed, operated, repaired, or maintained in accordance with instructions supplied by eSIX, (e) the Hardware has been subjected to abnormal physical or electrical stress, abuse, misuse, negligence, or accident, (f) the serial number on the Hardware has been altered, defaced, or removed, (g) the Hardware damage was caused by lightning, power surges or wrong voltage usage, or (h) the Hardware is supplied or licensed for beta, evaluation, promotional, testing or demonstration purposes for which eSIX does not charge a purchase price or fee.

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