



SmartAX EA5821 24GE, PoE



Multi-service Access Module

Technical Specifications

Item	Description
Dimensions (H×W×D)	43.6 mm x 442 mm x 220 mm (without the mounting brackets) 43.6 mm x 482.6 mm x 220 mm (with the mounting brackets)
Weight	3.75 kg
Ambient temperature	-40°C to +65°C
Ambient humidity	5%RH to 95%RH
Working voltage range	100 V to 240 V AC, 50Hz/60Hz
Maximum input current	5.5 A
UNI	24 GE, PoE
NNI	XG-PON / GPON
Static Power Consumption	29 W
Maximum Power Consumption	434 W
Maximum PoE output power	<ul style="list-style-type: none">• 370 W (supported by the system)• 30 W (supported by every GE port)
Protection level	IP20
Surge protection level	<ul style="list-style-type: none">• AC power port: 6 kV common mode; 6 kV differential mode.• GE user ports: 4 kV common mode; 1.5 kV differential mode.

Port Specifications

XG-PON Port

- Connector type: SC/PC (UPC)
- Standards compliance: ITU-T G.987.x, ITU-T G.988
- Center wavelength:
 - ✓ Tx: 1270 nm
 - ✓ Rx: 1577 nm
- Wavelengths range:
 - ✓ Tx: 1260 nm-1280 nm
 - ✓ Rx: 1575 nm-1580 nm

GPON Port

- Connector type: SC/PC (UPC)
- Standards compliance: ITU-T G.984.x
- Center wavelength:
 - ✓ Tx: 1310 nm
 - ✓ Rx: 1490 nm
- Wavelengths range:
 - ✓ Tx: 1290 nm-1330 nm
 - ✓ Rx: 1480 nm-1500 nm

GE electrical ports

- RJ-45 port
- Provides gigabit Ethernet adaptive access rates of 10 Mbit/s, 100 Mbit/s and 1000 Mbit/s.
- Standards compliance: IEEE802.3
- The GE electrical ports support PoE function, Standards compliance: IEEE 802.3af/IEEE 802.3at

Primary Features

Networking Protection

Type B Protection

Multicast

- IGMP v2/v3
- IGMP Proxy
- IGMP Snooping
- MLD Proxy
- MLD Snooping
- Multicast CAC

Layer 2 management

- MAC address management
- Virtual local area network (VLAN) management
- Flow Bundle
- SVLAN+MAC forwarding
- Transparent transmission of protocol packets

QoS

- Traffic classification policy
- Priority processing
- Traffic policing
- Traffic shaping
- Congestion management
- ACL

Subscriber Security

- 802.1x
- RAIO
- DHCP Option82
- PITP
- Anti-IP Spoofing
- Anti-MAC Spoofing / Anti-MAC address transfer / MAC Address Filtering
- Source route filtering

Fault diagnosis

- Point-to-Point Protocol over Ethernet (PPPoE) dialup service emulation
- Dynamic Host Configuration Protocol (DHCP) dialup service emulation
- Multicast emulation