



# SmartAX EA5821 24GE



**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)<br>43.6 mm x 482.6 mm x 220 mm (with the mounting brackets)                            |
| Weight                    | 2.18 kg  |
| Ambient temperature       | -40°C to +55°C   |
| Ambient humidity          | 5%RH to 95%RH  |
| Working voltage range     | 100 V to 240 V AC, 50Hz/60Hz   |
| Maximum input current     | 1 A  |
| UNI                       | 24 GE  |
| NNI                       | XG-PON / GPON  |
| Static Power Consumption  | 14 W   |
| Maximum Power Consumption | 23 W   |
| Protection level          | IP20   |
| Surge protection level    | <ul style="list-style-type: none"><li>AC power port: 6 kV common mode; 6 kV differential mode.</li><li>GE user port: 4 kV common mode.</li></ul> |

## 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

## Primary Features

### 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