

ASEE-1982

Subscriber End Equipment (1x10GE+4x1GE+1xPOTS+Wi-Fi6+USB)

Feature Summary

- ◆ Desktop or Server rack-mount
- ◆ ITU-T G.9807.x compliant, BBF.247 ready
- ◆ BBF TR.156 VLAN Model compliant
- ◆ One XG(S)PON uplink port
- ◆ Wi-Fi6 (AX-3000) support with 2x2 MIMO internal antennas for both 2.4GHz/5GHz Wi-Fi interfaces
- ◆ Four 10/100/1000 Base-T Ethernet RJ-45 ports
- ◆ One 100/1000/2500/10000 Base-T Ethernet RJ-45 port
- ◆ One FXS RJ-11 port
- ◆ USB 2.0 Host port
- ◆ Supports 802.1p QOS, 802.1q VLAN and IEEE 802.3 standards
- ◆ Supports SIP based Soft-switch support
- ◆ Supports dual software image - working image & alternative image for image rollback
- ◆ Web based GUI for local provisioning and software upgrade
- ◆ Dual managed by ITU-T G.988 OMCI and/or remote management functions as TR-069 and Telnet for provisioning, diagnostics, monitoring, and software upgrade
- ◆ Supports AC Wall adapter
- ◆ Supports Dying GASP

Applications

The Alphion Subscriber End Equipment Model ASEE-1982 is a XGSPON Wi-Fi6 device that has been optimized to provide triple play service to the Subscribers. It is best suited for FTTH residential and small office.

Advanced High Bandwidth technology

The ASEE-1982 is fully FSAN (G.9807.x), supporting XGSPON systems (9.95328 Gbps Downstream and 9.95328 Gbps Upstream).

Flexible Management

The ASEE-1982 can be managed remotely from any XG(S)PON OLT via OMCI channel and also via TR-069. It can also be managed locally via the Web based GUI and CLI. The device provides enhanced PON debug & diagnostic functions, System logging, memory allocation & crash check. Also supports Alarm report and suppression (ARC), all standard PM counters.

SPECIFICATIONS

XGSPON Uplink interface

Standard:	Fully ITU-T G.9807.x, G.984 and G.988 compliant
Line rate:	XG(S)PON - Downstream: 9.95328 Gbps, Upstream: 9.95328 Gbps
Connector:	SC/APC, single-mode-fiber;
Wavelength:	Transmit: 1270 nm; Receive: 1577nm
Tx Output power:	+4 to +9 dBm mean launch power (at >=6 dB extinction ratio)
Turn on/off time	< 27.5ns (at burst mode)
Rx Sensitivity:	-8dBm to -28dBm (isolation >=30 dBm)
OLS/OTM:	G.984.2Amd2 incl. RX & TX power, dying gasp
TC layer:	FEC, Configurable AES decryption (both US and DS)
GEM port-IDs:	Up to 256, Flexible mapping between T-CONT & GEM port
T-CONT:	Type 1-5, up to 32

10G Ethernet interfaces

Type:	One 10GE port; RJ-45 connector
Standard:	IEEE 802.3u, 802.3ab, 802.3bz, 802.3an
Link	100/1000/2500/5000/100000 Base-T rate and full/half-duplex auto-negotiation and MDI/MDIX auto-sensing

1G Ethernet interfaces

Type:	Four GE ports; RJ-45 connectors
Standard:	IEEE 802.3, 802.3u, 802.3ab
Link	10/100/1000 Base-T rate and full/half-duplex auto-negotiation and MDI/MDIX auto-sensing

Voice/Fax interfaces

Type:	1xFXS port
Connector:	RJ-11 connector
FXS:	5 REN
Soft-switch Support	SIP

Wi-Fi WLAN interface

Standards:	2.4 GHz - 802.11b/g/n/ax 5 GHz - 802.11a/n/ac/ax
Transceiver:	2.4 GHz - 2x2 MIMO 5 GHz - 2x2 MIMO
EIRP:	2.4GHz - 27 dBm; 5GHz - 26 dBm
Speed:	2.4GHz, 40 MHz Channel – 574 Mbps (PHY Rate) in AX Mode 5GHz, 80 MHz Channel – 1.201 Gbps (PHY Rate) in AX Mode

USB Interface

Connector:	1 x USB 2.0
Power load:	5V, 1A max.

Power

AC Adapter:	Input:100-240VAC, 50/60Hz Output:12VDC, 2.5A
DC Connector:	Standard Barrel connector
Power (Max):	18W(Approx.)

Physical

Temperature:	Operating: 0 °C to 50 °C
Humidity (RH):	10% to 95% non-condensing
Weight	0.5 Kg approx.
LED Indicators:	Power, XGS-PON, LOS, Internet, GE1, GE2, GE3, GE4, 10GE, 2.4GHz, 5GHz, WPS, Phone, USB
Dimensions:	220mm(W)X160mm(D)X40mm(H)
Buttons:	Power, Reset, WPS.

Management

Local:	Web based GUI and CLI
Remote:	G.984.4/988 OMCI, Telnet, TR-069

Regulatory Compliances

Certification	CE (Conformité Européenne) compliant, FCC compliant, Laser safety standard IEC-60825 Class I.
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