



iMAP™ XE1s (AT-TN-310)

10 Gigabit Ethernet Channel Unit

The Allied Telesis integrated Multiservice Access Platform (iMAP™) XE1s SFP+ channel unit, available for use with the iMAP™ 9700 and iMAP™ 9810 chassis, is a new advancement in network channel unit flexibility and capacity supporting 10GbE.

Aggregation of GbE Network Traffic

The Allied Telesis iMAP XE1s channel unit is primarily intended to be used as an aggregation element with the iMAP™ CFC56 and iMAP™ CFC100 common channel units. Combined, these units provide 10G transport. As network designs continue to blur the line between Access and Transport, the iMAP XE1s will become a key component of any Carrier Ethernet and IP Triple Play network design.

The iMAP XE1s network module, available for use with the iMAP 9810 chassis group using the iMAP CFC100 or the iMAP 9700 chassis group equipped with the CFC56 controller module, is an advancement in protected 10 Gigabit aggregation speed and transport. The iMAP XE1s provides unmatched flexibility for the aggregation of bandwidth-intensive applications and services including the delivery of IP Triple Play over any media (Fiber, Copper and xDSL) as well as Carrier Ethernet services to residential and business customers. It continues to support the carrier-class capabilities of the Allied Telesis Network Channel Unit family (iMAP™ GE3 and iMAP™ XE1) in addition to increased capacity and the enhanced Quality of Service (QoS) capabilities.

Metro Ethernet Connectivity

Up to two iMAP XE1s channel units are supported per an iMAP 9810 or iMAP 9700 chassis providing unprecedented capabilities for the delivery of user-centric services as well as network traffic aggregation.

Part of the Allied Telesis IP Broadband Access Family

Whether it's broadband ADSL2+, VDSL2, SHDSL, FTTH or POTS, the iMAP product family makes the ideal platform for last-mile service delivery. Added to the ability to support 100% of the available iMAP service channel units, the iMAP XE1s has also been designed to withstand the most rugged environmental conditions. This makes it the perfect choice for providing high flexibility and carrier capabilities anywhere in an operator's network.

Specifications

Interface

Number of 10 GbE connections: One
 Backplane capacity: 2 x 10 Gbps
 Physical design: Front Access

Port Specifications

Number of VLANs per port: 4095
 Priority queues: Eight
 Dropped packet counter
 Full traffic classifier support
 Full traffic classifier action support

Protocols and Specifications

IEEE 802.1Q VLAN Bridging
 IEEE 802.1p Traffic Class Expediting
 IEEE 802.1q (Double Tagging)

Power Requirements

Maximum power: 53W

Environmental

Operating temp: -40°C to 65°C (-40°F to 149°F)
 Storage temp: -40°C to 75°C (-40°F to 167°F)
 Relative humidity: 5% to 95%, non-condensing

Regulatory Approvals

FCC Part 15 Class A/ANSI C63.4
 EN 300 386 V1.3.1:2001-09/EN 55022:1998, Class A
 VCCI Class A; ITE/ CISPR 22:1997 Class A
 EN 300 386 V1.3.1:2001-09/EN 55022:1998, Class A
 EN 300 386 V1.3.1:2001-09/EN 61000-4-3:1998

Key Features

- ▶ 1 x 10 GbE GbE wirespeed ports for uplinks
- ▶ SFP+ optics
- ▶ Support for EPSRing™ 50ms resiliency
- ▶ Hardened for OSP designs

Quality of Service

- ▶ Eight queues
- ▶ Strict priority scheduling
- ▶ VLAN stacking

Security

- ▶ Upstream forwarding only
- ▶ Extensive ACL support

Supported Services

- ▶ High-speed internet
- ▶ Business VPN
- ▶ Network element subtyping
- ▶ VoIP
- ▶ IPTV

EN 300 386 V1.3.1:2001-09/EN 61000-4-6:1996
 EN 300 386 V1.3.1:2001-09/EN 61000-4-4:1995
 EN 300 386 V1.3.1:2001-09/EN 61000-4-5:1995
 EN 300 386 V1.3.1:2001-09/EN 61000-4-2:1999
 UL/cUL 60950: IEC60950
 NEBS Level 3, GR-1089 Issue 3, GR63 Issue 2
 USDA RUS

Ordering Information

iMAP XE1s
 1x 10 GbE network interface card
 Part number: AT-TN-310