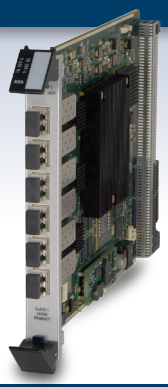
iMAP™ XE6 (AT-TN-309)

Six-Port 10GbE Aggregation Channel Unit



The Allied Telesis integrated Multiservice Access Platform (iMAP™) XE6 channel unit, available for use with the iMAP™ 9700 and iMAP™ 9810 chassis, is an advanced 10GbE channel unit providing increased flexibility in network topologies and switching capacity for the iMAP.

Aggregation of Gigabit Ethernet Network Traffic

As bandwidth demands continue to grow, service providers are challenged with providing additional bandwidth farther into the local loop. The ability to maintain a single IP infrastructure to address network transport bandwidth as well as last-mile access bandwidth is pivotal for any network operator.

The Allied Telesis iMAP XE6 module is primarily intended to be used for aggregation of the access network using Allied Telesis 10G iMAP Central Fabric Control modules in either the iMAP 9700 or iMAP 9810.

Combined, these modules provide 10G transport bandwidth as well as aggregation of up to six 10GbE feeds per iMAP XE6 channel unit. When used in the iMAP resource channel unit slots in the iMAP 9700 or in any channel unit slot in the iMAP 9810, a pair of iMAP XE6s can be used to subtend up to six Ethernet Protection Switched Rings (EPSRings™) providing an extremely flexible, reliable and dense aggregation point from any network location.

If point-to-point aggregation links are required, the iMAP XE6 provides cost-effective and feature rich aggregation to any 10GbE network element. As network designs continue to blur the line between access and transport, the iMAP XE6 will become a key component of any IP Triple Play network design.

Metro Ethernet Connectivity

With the iMAP XE6, the Allied Telesis iMAP is ideally suited for aggregating nodes delivering GbE services to any location relying on last-mile fiber access. With advanced features such as per VLAN rate limiting, the iMAP XE6 can be used as a network interface for subtended remote locations or for connecting access islands to aggregation rings.

Specifications

Interface
Number of 10GbE ports: Six
Backplane capacity: 10Gbps
Physical design: Front access Six x SFP+

Port
Number of VLANs per port: 4095
Priority queues: Eight
Dropped packet counter
Full traffic classifier support
Full traffic classifier action support ARP filtering
Egress metering: 8kbps increments
Ingress max burst size: 512kbps
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Protocols

IEEE 802.1d,w	Rapid Spanning Tree
IEEE 802.1D	Bridging
IEEE 802.1Q	VLAN bridging
IEEE 802.1p	Prioritization
IETF RFC 1112	IP multicasting/IGMP snooping v1
IETF RFC 2236	IP multicasting/IGMP snooping v2

DHCP relay agent option 82 (RFC 3046)

Power Requirements
Maximum power: 60W

Environmental Conditions
Operating temperature: -40°C to 65°C (-40°F to 149°F)
Storage temperature: -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

- Six 10GbE wirespeed ports for uplinks
- SFP+ optics
- Two 10Gbps backplane links
- Support for EPSR++ 50ms resiliency
- Per VLAN rate limiting
- 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
- VoIP
- IPTV
- Business VPN
- Network element subtending

EN 300 386 V1.3.1:2001-09/EN 6100-4-6:1996
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 XE6
6-port XE6 10G link aggregation module
Part number: AT-TN-309

617-000424 RevB