

iMAP™ GE8 (AT-TN-117)

8-Port GbE Service and Aggregation Channel Unit



Aggregation of GbE Network Traffic

The Allied Telesis integrated Multiservice Access Platform (iMAP™) GE8 channel unit is available for use in the Allied Telesis iMAP™ 9000 Series chassis.

The iMAP GE8 channel unit is primarily intended to be used as an aggregation element with the introduction of Allied Telesis 10G iMAP common control upgrade (iMAP™ CFC56, iMAP™ CFC100 and iMAP™ XE1s). Combined, these modules provide 10G transport bandwidth as well as aggregation of up to eight GbE feeds per GE8 channel unit. When used in the iMAP Resource Module slots, a pair of iMAP GE8 modules can be used to subtend up to eight EPSRTM rings providing an extremely flexible, reliable and dense aggregation point from any network location.

If point-to-point aggregation links are required, the iMAP GE8 provides cost-effective and feature-rich aggregation to any GbE network element. As network designs continue to blur the line between Access and Transport, the iMAP GE8 will become a key component of any IP Triple Play network design.

Metro Ethernet Connectivity

With the iMAP GE8 module, the Allied Telesis iMAP is ideally suited for delivering GbE services to any Enterprise or business location relying on last-mile fiber access. With advanced features including per VLAN rate limiting, the iMAP GE8 module can be used as either a network interface for subtended remote locations or for point-to-point connectivity to a strategic business.

The iMAP GE8 module supports up to 4095 VLANs and can be used to provide business Ethernet services. Whether serving customers from traditional COs, CEVs, RTs or an Enterprise, the iMAP and iMAP GE8 channel unit offer wirespeed and non-blocking bandwidth for any IP/Ethernet application.

Specifications

Interface Specifications

Number of GbE ports	Eight
Backplane capacity	10Gbps
Physical design:	Front access 8 x SFP

Port Specifications

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:	1Mbps increment
Ingress max. burst size:	64kbps

Protocols and Specifications

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	53W
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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
 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

Key Features

- ▶ Eight GbE Wirespeed ports
- ▶ SFP Optics
- ▶ Up to ten Gbps non-blocking backplane link
- ▶ Support for Ethernet Protection Switched Ring (EPSRing™) 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

UL/cUL 60950: IEC60950
 NEBS Level 3, GR-1089 Issue 3, GR63 Issue 2
 USDA RUS

Ordering Information

iMAP GE8
 8-ports, GE8 service and aggregation channel unit
 Part number: AT-TN-117