

IMAP™ EPON2 (AT-TN-118)

Dual Port EPON Channel Unit

As broadband deployments continue the inevitable migration to Fiber To The Home (FTTH), Allied Telesis is well positioned to support any FTTH infrastructure with the Allied Telesis integrated Multiservice Access Platform (iMAP™) EPON2 channel unit.

FTTH Over Any Last-Mile Infrastructure

As customer demand for IP-enabled services increases. Service Providers must weigh the benefits of pointto-point versus point-to-multipoint deployments. The Allied Telesis integrated iMAP is the only IP access platform that offers solutions for both scenarios—eliminating the uncertainty of which last-mile infrastructure to

Using the same approach to last-mile design, the iMAP EPON2 channel unit is made with hardened components offering Service Providers of all kinds the added flexibility of CO or remote deployments. With standards-based 1000BASE-PX20 U/D pluggable SFP optics, the iMAP EPON2 channel unit provides optical reach of up to 20 km while supporting up to 32 subscribers per PON port. Supporting key features such as QoS, security and IP Video, the iMAP EPON2 channel unit is a key component to any IP Triple Play deployment relying on PON last-mile infrastructures.

As IPTV services continue to reach out to residential communities. Service Providers using the Allied Telesis iMAP and iMAP EPON2 solution can accommodate the most advanced communications services available today. Supporting 16:1 or 32:1 splits, the iMAP EPON2 channel unit can support PON bandwidth up to 1Gbps bidirectional. With powerful Quality of Service (QoS) traffic management, the iMAP EPON2 provides maximum bandwidth guarantees and minimum bandiwth limits on a per-subscriber, per-service basis.

Continuing the IP Convergence over PON

In choosing EPON IEEE 802.3ah standards-based technology, Allied

Telesis has enabled Service Providers to offer native IP-based services over either existing or new-build PON infrastructures. One of the inherent benefits of EPON versus other PON alternatives is the ability to transport all traffic in its native IP/Ethernet format. This protocol efficiency is vital to the IP convergence of all traffic — Voice, Video and Data.

Specifications

Interface Specifications

Number of PON ports Two Number of subscribers per PON 32 Backplane capacity 2Gbps Front access Physical design SFP optics

Fight

Port Specifications

Priority queues per port RMON counters Traffic classifier support Traffic classifier action support User-configurable per-VLAN SLA

EPON Standards

IEEE 802.3ah FFM TM-2004 IEEE 802.3ah EFM PON clause 64 IFFF 802.3ah OAM clause 57 IEEE 802.3ah Optics clause 60

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

Environmental Specifications

Operating temp -5°C to 55°C (23°F to 131°F) -40°C to 75°C (-40°F to 167°F) Storage temp 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

Key Features

- Dual PON ports
- ▶ Support for 32 subscribers per PON
- ▶ IEEE 802.3ah OAM
- ▶ SFP optics 20 km support
- ▶ 192 VLANs per PON
- ► Extensive ACL support

Quality of Service

- Eight gueues
- Per VLAN/Service SLA
- Per subscriber SLA
- Min/max downstream/upstream BW guarantees
- Strict priority scheduling

Security

- ► MAC flooding VLAN-based
- ▶ DHCP option 82 relay/snooping
- Upstream forwarding only for all subscribers

Supported Services

- ▶ High-speed Internet
- ▶ VoIP
- Gaming
- Business VPN

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 Inormation

iMAP EPON2

Dual port EPON channel unit Part number: AT-TN-118



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