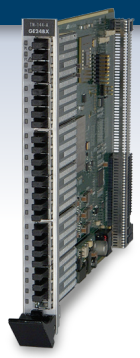
iMAP™ GE24BX (AT-TN-144)

FTTX Channel Unit



The Allied Telesis integrated Multiservice Access Platform (iMAP™) GE24BX channel unit provides 24 ports of 100/1000BX Ethernet on a single channel unit, yielding the highest-value active Ethernet solution in the market.

Industry-Leading Fiber Density

Designed to meet the explosive growth in FTTx subscribers, the iMAP GE24BX leads the industry in fiber density giving service providers maximum subscriber coverage with minimal equipment footprint. This breakthrough in fiber density is enabled through the use of patented new fiber-optic technology. Complementing the FX10 and FX20 family of channel units, the iMAP GE24BX is compatible with all Allied Telesis 100BX and 1000BX iMGs.

High-Definition Ethernet

Like all Allied Telesis iMAP channel units, the iMAP GE24BX delivers a full suite of Layer 2+ capabilities that are designed for reliable, secure, and wirespeed Triple Play service delivery. Implemented using an advanced Ethernet switch fabric, the iMAP GE24BX sets a new standard for implementing fine grained Quality of Service (QoS) and guaranteed Service Level Agreements. The iMAP GE24BX channel unit includes more queues per port, support for more VLANs and multicast groups and precision port rate limiting. In addition, the iMAP GE24BX hardware is ready to support IPv6 and sophisticated traffic management features such as per queue rate limiting and WRR scheduling.

Specifications

Interface

Number of 100/1000BX ports:	24
Single-mode, single fiber	
Tx 1550 nm, Rx 1310 nm	
Receive sensitivity:	-23 dBm
Output power:	-2 dBm to -7 dBm
SFF with LC connector	
Backplane capacity:	10Gbps or 1Gbps
Physical design:	Front access

Ports

Number of VLANs per port:	4095
Priority queues:	Eight
Dropped packet counter	
Full traffic classifier support	
Full traffic classifier action support	
ARP filtering	
Egress/ingress port rate limiting:	64kbps increment
Hardware capable of supporting per queue rate limiting	
Ingress metering:	64kbps increment

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
RFC 3046	DHCP relay agent option 82

Power Requirements

Maximum power: 42W

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

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 61000-4-6:1996
EN 300 386 V1.3.1:2001-09/EN 61000-4-4:1995

Key Features

Ports

- 24 x 100/1000BX wirespeed ports

Quality of Service

- Eight queues
- Strict priority scheduling
- Hardware capable of supporting WRR
- VLAN stacking

Security

- Upstream forwarding only
- Extensive ACL support

Supported Services

- High-speed internet
- VoIP
- IPTV
- Business VPN
- T1/E1 circuit emulation

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 GE24BX
24-ports, 100/1000BX channel unit
Part number: AT-TN-144

North America Headquarters | 19800 North Creek Parkway | Suite 100 | Bothell | WA 98011 | USA | T: +1 800 424 4284 | F: +1 425 481 3895
Asia-Pacific Headquarters | 11 Tai Seng Link | Singapore | 534182 | T: +65 6383 3832 | F: +65 6383 3830
EMEA & CSA Operations | Incheonweg 7 | 1437 EK Rozenburg | The Netherlands | T: +31 20 7950020 | F: +31 20 7950021

alliedtelesis.com

617-000381 RevE