Allied Telesis

FE10
AT-TN102-A 10 Port 100Mbps Fast Ethernet Service Module

100Mbps for LAN or Business Data Delivery

The FE10 is one of several Allied Telesis 100Mbps - 10 port service modules for the iMAP solution. This flexible choice provides the Service Provider or Enterprise customer with the flexibility of copper or fiber Ethernet solutions.

The Gigabit feed from the iMAP backplane allows the FE10 to operate completely at wirespeed. The flexibility of the iMAP additionally allows for mixing and matching service modules to meet any topology configuration.

Individual subscriber port configuring allows the operator to selectively configure each port for the type of service required or to default port configurations to a well known customized template.

Allied Telesis' OAM solution allows for full configuration and monitoring of each FE10 port. The FE10 module provides configuration tools to:

- Control or limit subscriber access
- Enforce port security rules
- Limit services to a port
- Manage QoS across the card
- Support network double-tagging
- Control ingress or egress service rates

Whether it is derived voice or HDTV IP Video, the FX10 will satisfy all bandwidth and mission critical services with ease.

Part of IP Broadband Access Family

Whether it is FE to the Business, ADSL2+ or FTTH, the iMAP family is the ideal platform for last mile service delivery. The FE10 line card can be used with any of the iMAP family of carrier grade, IP Multiservice Access platforms:

- iMAP 9700 (9RU, 17 service slots)
- iMAP 9400 (3RU, 7 service slots)
- MiniMAP 9100 (1RU, 3 service slots)

Provisioning, management, and diagnostics of subscriber ports can be accomplished from either the iMAP command line interface or the NMS.

Allied Telesis provides a large portfolio of Ethernet and xDSL transport and access equipment. In addition, Allied Telesis provides a complete set of XDSL and FTTx CPE solutions in the form of Multiservice Gateways, Layer 2/Layer 3 switches, routers or media converters to terminate the broadband link.

Key Features

Port-based
- VLANs
- VLAN translation
- Double-tagging (HVLAN)
- Filtering
- Ingress metering
- Egress port rate limiting
- Counting
- Classification and remarking
- RMON

QoS
- Four queues
- Priority scheduling

Security
- MAC limiting (up to 64)
- MAC flooding - VLAN-based

Services
- STP and RSTP
- Video-optimized
- Upstream forwarding only

Support for
- Business services
- Residential services

Interface Specifications

Number of ports:	10
AT-TN102:	100Mbps Service Ports
Backplane capacity:	1Gbps
Physical design:	Front Access
	RJ45

Protocols and Specifications

IEEE 802.1d,w Rapid Spanning Tree
IEEE 802.1D Bridging
IEEE 802.1Q VLAN Bridging
IEEE 802.1p Prioritization
IEEE 802.3ah EFM OAM
IEEE 802.3ad Link Aggregation
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	25W

Environmental Conditions

Operating Temp:	-40C to 65C
Storage Temp:	-40C to 75C
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
UL/cUL 60950: IEC60950
NEBS Level 3, GR-1089 Issue 3, GR63 Issue 2
USDA RUS

Allied Telesis' iMAP family of integrated
Multiservice Access Platforms

Ordering Information

FE10

Model	Description	Part #
FE10	10 ports, 100Mbps TX	AT-TN-102-A

iMAP 9x00 Chassis

Model	Description	Part #
iMAP 9700	17-slot chassis with DC power with faceplates	AT-TN-250GF
iMAP 9700	17-slot chassis with DC power without faceplates	AT-TN-250G
iMAP 9400	7-slot chassis with DC power with faceplates	AT-TN-251GF
iMAP 9400	7-slot chassis with DC power without faceplates	AT-TN-251G
MiniMAP 9101	3-slot mini chassis with DC power	AT-TN-9101-A-80
MiniMAP 9102	3-slot mini chassis with AC power	AT-TN-9102-A-XX*

iMAP Common Control

Model	Description	Part #
CFC24	24GbE switch controller card	AT-TN-401-B
GE3	3x GbE WAN interface card	AT-TN-301-A
CFC56	56 GbE switch controller card	AT-TN-407-A
XE1	10GbE WAN interface card	AT-TN-308-A
CFC12	12GbE switch controller card	AT-TN-408-A

Related iMAP Line Cards

Model	Description	Part #
FTTX (MM)	10-port 100Mbps multimode fiber line card	AT-TN-104-A
FTTX (SM, Dual Fiber)	10-port 100Mbps singlemode fiber line card	AT-TN-107-A
FTTX (SM, Single Fiber)	10-port 100Mbps singlemode, single fiber line card	AT-TN-109-A
GE8	8-port GbE line card	AT-TN-117-A
GEPON2	2-port GEPON line card	AT-TN-118-A
Filler	Full size service slot filler plate	AT-TN-M000-A

Related CPE

Model	Description	Part #
RG613TX	intelligent Multiservice Gateway, 3x LAN, 2x FXS, Copper Fast Ethernet WAN interface	AT-RG613TX-10

*Where XX   = 10 for U.S. power cord   = 40 for Australia power cord
= 20 for no power cord   = 50 for Europe power cord
= 30 for U.K. power cord

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