

## ADSL48

### AT-TN131-A 48 Port ADSL2+ Annex A Module

#### Uncompromising ADSL Performance for Demanding Applications

The newest ADSL service module in the iMAP family is the AT-TN-131. It augments the current product line by providing breakthrough technology that offers industry leading performance in a smaller footprint and with less power. The AT-TN-131 has been designed to meet the most demanding triple play applications. The card's higher port count will help to reduce costs while maintaining the feature richness of the other cards in the family. Furthermore, at the heart of the card is a high performance Network Processor that is designed for the most demanding traffic applications; multi-cast video, video on demand, voice, and data.

The 48 subscriber ports can concurrently support any of the standard ADSL modes; ADSL2+, G.DMT, S=1/2, or T1.413. A powerful DSP implements all ADSL algorithms including Annex M, Annex L, Data boost and allows future and emerging ADSL2+ features to be added through simple software upgrades.

In ADSL2+ mode, a subscriber port can deliver up to 26Mbps of downstream bandwidth; enough to support up to 5 set top boxes of standard digital video, plus headroom for voice and data traffic. Traffic priority can be differentiated by service type so that voice, video, and data can be served to multiple users on a single port.

To enhance management, a complete set of counters monitors ADSL performance at each end of the link. Every performance monitor counter can be assigned a threshold that will generate an alarm if the threshold is exceeded.

#### Part of a total end-to-end solution that delivers the highest quality and performance in the industry

Allied Telesis is the only broadband access vendor that provides a complete end to end ADSL solution. Customers can optimize real world downstream rates and DSL reach when they use the AT-TN-131 together with our patent pending interconnect system. This unique system maximizes both revenue and subscriber satisfaction. Service providers can roll out new service with confidence and ease.

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.

#### Key Features

- 48 ADSL2+ Ports
- Two Slot design
- ADSL Annex A
- Automatic or manual selection of ADSL2+, G.DMT, or T1.413 modes
- Annex L, Annex M, Data boost

#### QoS

- Eight Queues
- Strict Priority Scheduling
- VLAN Stacking
- VLAN Translation

#### Security

- Upstream Forwarding Only
- Extensive ACL Support

#### Services Supported

- High Speed Internet
- VoIP
- IPTV
- Business VPN



Allied Telesis' iMAP family of integrated Multiservice Access Platforms

# ADSL48 | AT-TNI31-A 48 Port ADSL2+ Annex A Module

## Interface Specifications

Number of ports:	48
Number of slots:	2
Backplane capacity:	1Gbps
Connector:	2x RJ-21 (Female)

## Compatible CFC

CFC12, CFC24, CFC56

## Port Specifications

Number of VCs per port:	4
Number of priority queues per VC:	8
Dropped packet counter:	Yes
Full traffic classifier support:	Yes
Full traffic classifier action support:	Yes
ARP Filtering:	Yes
Ingress Metering:	Yes (8Kb increment)
Peak Cell Rate Limiting per VC:	Yes
Ingress Max Burst Size:	512Kbps

## ADSL Standards

ITU-T G.992.1 (ADSL, S = \_\_, G.DMT, T1.413)

ITU-T G.992.5 (ADSL2+)

Overlap and Non-overlap spectrum  
Annex A with Annex L and Annex M support

## Power Requirements

Maximum power: 90W

## Environmental Specifications

Operating Temp:	0C to 50C
Storage Temp:	-40C to 75C
Relative Humidity:	5% to 95%, non-condensing

## Regulatory Approvals

NEBS Level 3  
GR-1089-CORE  
GR-63  
FCC Part 15 Class A  
EN 300386  
UL/cUL 60950  
VCCI

## Ordering Information

ADSL48		
Model	Description	Part #
ADSL48A	ADSL2+ Annex A Service Module, 48 Port	AT-TN-131-A

iMAP 9x00 Chassis		
Model	Description	Part #
iMAP 9700	17-slot Chassis Group with DC Power	AT-TN-250G
iMAP 9400	7-slot Chassis Group with DC Power	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 and Network		
Model	Description	Part #
CFC24	24 GbE switch controller module	AT-TN-401-B
CFC12	12 GbE switch controller module	AT-TN-408-A
CFC56	56 GbE switch controller module	AT-TN-407-A
GE3	3 x 1GbE WAN Interface Module	AT-TN-301-C
XE1	1 x 10GbE WN Interface Module	AT-TN-308-A

Accessories		
Model	Description	Part #
Cable	Optimized RJ21 Male to Optimized RJ21 Male	AT-TN-C013-XXX
Cable	Optimized RJ21 Male to Unterminated	AT-TN-C019-XXX
MDF Kit	Terminal block to RJ21 Male, 4 cable	AT-TN-K022-A-XXX
Splitter Chassis	3RU, 4 Slot splitter chassis (for use in North America)	AT-TN-S004-A
Splitter Card	24 Port (for use in North America)	AT-TN-S101-A

Related Items		
Model	Description	Part #
RG624	ADSL2+ intelligent multiservice Gateway, 4x LAN (Annex A)	AT-RG624-XX*
RG634	ADSL2+ intelligent multiservice Gateway, 4x LAN, 2x FXS (Annex A)	AT-RG634-XX*

\*Where XX = 10 for U.S. power cord = 40 for Australia power cord XXX = Length  
= 30 for U.K. power cord = 50 for Europe power cord

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