



## ADSL24B

### AT-TN124 24 Port ADSL2+ Service Module (Annex B)

#### Uncompromising ADSL Performance for Demanding Applications

The ADSL24 (Annex B) is a 24 port ADSL2+ service module for the Allied Telesis iMAP and has been designed to meet the most demanding broadband and Triple Play applications. The card's Gigabit Ethernet backplane link ensures that all 24 ports will receive the maximum of 26Mbps per port without oversubscription. At the heart of the card is a wirespeed Ethernet switch that is designed for the most demanding traffic applications: IP Multicast Video, Video on Demand, voice, and data.

Each of the 24 subscriber ports can simultaneously support any of the standard ADSL modes - ADSL2+ or G.DMT – on a per port basis. A powerful DSP implements all ADSL algorithms 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 five set-top boxes of standard digital video - plus headroom for VoIP and data traffic. Traffic priority can be differentiated by service type so that VoIP, video, and data can be prioritized from a single port based on your business needs.

#### Performance You Can Depend On

Allied Telesis is the only broadband access vendor that provides a complete end-to-end ADSL solution. Service Providers can maximize real world downstream rates and DSL reach when they use the ADSL24 incorporating our patent pending optimized interconnect system. This unique system maximizes both revenue and subscriber satisfaction.

A complete set of management 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 the Allied Telesis' IP Broadband Access Family

Whether it is broadband ADSL2+, FTTH, POTS or T1/E1 circuits, the iMAP family is the ideal platform for last mile service delivery. The ADSL24 (Annex B) 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.

The ADSL24 (Annex B) has been designed to survive the most rugged environmental conditions. It can be confidently deployed in either a central office or in outdoor enclosures withstanding extremes of heat, cold, and light exposure.

Allied Telesis provides a large portfolio of FTTx, 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

- 24 ADSL2+ ports
- ADSL Annex B
- 1 Gbps backplane link
- Automatic selection of ADSL2+ or G.DMT modes
- Flexible control of traffic priorities for voice, video, data applications
- Video-optimized

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## Interface Specifications

Number of ports: 24  
Connector: RJ-21 (Female)

## Compatible CFC

CFC6, CFC12, CFC24

## ADSL Standards

ITU-T G.992.1 (ADSL, G.DMT)  
ITU-T G.992.5 (ADSL2+)  
Overlap and Non-overlap spectrum  
Annex B (ONLY)

## Backplane Interface Capacity

1000Mbps

## Antenna

External Dipole

## Port Specifications

Number of VCs per port: 1  
Number of priority queues per port: 4  
RMON Counters: Yes  
Full traffic classifier support: Yes  
Full traffic classifier action support: Yes

ARP Filtering: Yes  
Ingress Metering: Yes (1Mbps increment)  
Egress Port Rate Limiting: Yes (1Mbps increment)  
Ingress Max Burst Size: 64kbps  
Egress Max Burst Size: 64kbps

## Power Requirements

Maximum Power: 45W

## Environmental Conditions

Operating Temp. -40°C to 65°C  
Storage Temp. -40°C to 75°C

## Regulatory Approvals

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

## Ordering Information

### AT-TN124B

ADSL2+ Service Module Annex B, 24 port

## Accessories

### AT-TN-C013-A-xxx

Cable, Optimized RJ-21 Male to Optimized RJ-21 Male (xxx = Length)

### AT-TN-C019-A-xxx

Cable, Optimized RJ-21 to Unterminated, (xxx = Length)

### AT-TN-K022-A-xxx

MDF Kit, Terminal block to RJ-21 Male, 4 cable (xxx = Length)

## Related Products

### AT-RG624B-xx

ADSL2+ intelligent Multiservice Gateway, 4 x LAN (Annex B)

### AT-RG634B-xx

ADSL2+ intelligent Multiservice Gateway, 4 x LAN, 2 x FXS (Annex B)

### AT-RG644B-xx

ADSL2+ intelligent Multiservice Gateway, 4 x LAN, 1 x ISDN BRI (Annex B)

## iMAP interfaces available:

- POTS24 (North America only)
- ADSL8 and 16
- PAC24A (24 POTS + 24 ADSL) (North America only)
- SHDSL 16 and 24
- CES8 (T1/E1), NTE8 (MLPPP)
- FE10 (10/100Mbps)
- FX10 (BX, LX, FX)
- GbE

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617-000051 Rev.B