integrated Multiservice Access Platform | Product Information

MAP[™] PAC24 (AT-TN-145)

integrated Multiservice Access Platform

Eliminate external splitters with the Allied Telesis integrated Multiservice Access Platform (iMAP[™]) PAC24 combined POTS and ADSL2+ channel unit for the iMAP.

Overview

Allied Telesis has combined industryleading ADSL2+ technology, VoIPbased POTS interfaces and optimized splitters to deliver the iMAP PAC24 combo channel unit. The Allied Telesis iMAP PAC24 eliminates the external wiring required to connect POTS and ADSL2+ circuits on traditional DLC or legacy DSLAM platforms. Utilizing the same optimized wiring and board layout techniques in the ADSL24 channel unit, the iMAP PAC24 is a cost-effective means to deliver Triple Play services that rely on copper plant in the last mile.

Each of the 24 subscriber ports simultaneously supports analog POTS and any of the standard ADSL modes-ADSL2+, G.DMT, S=1/2 or T1.413-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. Though the combined services appear as a single port on the physical connection to the iMAP PAC24 channel unit, each service is individually managed. This ensures services are enabled on an on-demand basis through remote management-including through the comprehensive Allied Telesis AlliedView[™] Network Management System (NMS).

The iMAP PAC24 integrated splitters eliminate the costs associated with external splitters and eliminate a significant source of ADSL2+ interference which optimizes line rates. The iMAP PAC24 includes support for SIP and MGCP-based Softswitch interoperability so that the same iMAP PAC24 can communicate with a legacy circuit switched Class 5 switch or to a next-generation IP-based Softswitch.

Specifications

InterfaceNumber of ports24ConnectorRJ-21 (Female)

POTS Specifications

Talk battery 48 to 52V, tip-ring on-hook Balanced Ringing 5 REN per line between 0 and 1100 ohms < 5 REN up to 1800 ohms 2wire impedance 900 ohms + 2.16uF complex 200 - 34000Hz flat ± 0.2db Frequency response > 45 dBLongitudinal balance Loop current 26 - 28mA current limited 0 - 1800 ohms for signaling Loop range and supervision Loop signaling Loop Start supervision. superimposed ringing Dialing support DTMF, Dial Pulse G.711, G.726-32k, G.729 CODEC Packetization 10, 20, or 30ms G.168 echo cancellation Fcho Jitter buffer Up to 150ms average delay

ADSL Standards and Specifications T1.413

G.992.1 (G.DMT) G.992.2 (G.Lite) G.992.3 (ADSL2, Annex M and Annex L) G.992.5 (ADSL2+ and Annex M) Annex A (ONLY) IEEE 802.10 VLAN Bridging IEEE 802.10 VLAN Bridging IEET RFC 1112 IP Multicasting/IGMP Snooping v1 IETF RFC 2236 IP Multicasting/IGMP Snooping v1

Port

 Virtual circuits per port
 Four

 Priority queues per virtual circuit
 Eight

 Dropped packet counter
 Full traffic classifier support

 Full traffic classifier action support
 ARP filtering

 Ingress metering in 64kbps increments
 Ingress max burst size

 4KB to 512KB
 Egress ATM class of service per virtual circuit

Power Requirements

Maximum power 100W

Environmental

 Operating Temperature
 -40°C to 65°C (-40°F to 149°F)

 Storage Temperature
 -40°C to 75°C (-40°F to 167°F)

 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



Allied Telesis

Key Features

- 24 POTS and ADSL2+ ports with Integrated Splitters
- Integrated ring generator with 5 REN per line
- G.711, G.726-32, or G.729 CODECs
- ► SIP and MGCP call control protocols
- CLASS feature support
- Integrated GR-909 metallic testing
- Support for V.90 analog modem rates
- Automatic or manual selection of ADSL2+, G.DMT, S=1/2, or T1.413 modes
- Flexible control of traffic priorities for voice, video, data applications
- Video-optimized
- Currently available in North America only

Quality of Service

- Eight queues
- Priority scheduling
- VC to VLAN mapping

Security

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

Supported Services

- High-Speed Internet
- VoIP
- IPTV
- Gaming
- POTS

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 certification in progress USDA RUS GR-57-CORE

Ordering Information

iMAP PAC24

24-port POTS and ADSL2+ combo channel unit Part number: AT-TN-145

🔨 🖉 Allied Telesis

NETWORK SMARTER

alliedtelesis.com

© 2016 Allied Telesis, Inc. All rights reserved. Information in this document is subject to change without notice. All company names, logos, and product designs that are trademarks or registered trademarks are the property of their respective owners 617-000526 RevB