

24-Port ReachDSL & ADSL2+ IP DSLAM

4214, 4219, 4224, 4229, 4234, 4239



Environmentally Hardened, DC Powered 1U IP DSLAM for IP Video Deployments

Overview

The 4200IP DSLAM products are feature-rich, providing all the critical functions required to deliver any application including IP video, IP voice, and HSIA data simultaneously while maintaining the specified quality of service. The 4200IP DSLAM family supports ADSL2+, ReachDSL™, and G.SHDSL technologies, with either 10/100/1000BaseT, GigE fiber or T1/E1 MLPPP uplinks.

The 4200IP DSLAM combines IP multicast and IP prioritization capabilities with the latest ADSL2+ bandwidth to deliver a minimum of three IP video streams to the customer premises with the protocol support required to deliver it efficiently with superior quality. The 4200IP ensures a successful video deployment for the service provider by adding features such as IGMP Snooping and IGMP Proxy for reduced network traffic and quick, crisp channel changes.

When long loop lengths or impairment anomalies that adversely affect other technologies are encountered, the 4200IP DSLAM with ReachDSL provides trouble-free installation and expands DSL coverage beyond the normal range.

The temperature-hardened 4200IP DSLAM can be deployed in remote cabinets where space is at a premium and temperatures exceed typical central office environments. Mounting brackets and lightning protection allows for installation of the 4200IP in many different types of remote cabinets.

Features

- 1U 24-port form factor with universal mounting brackets. Temperature hardened and DC powered.
- Available with integrated POTS Splitters
- IGMP Snooping and IGMP Proxy
- IEEE 802.1Q VLAN w/ 802.1p prioritization for voice, video and data applications
- ADSL2+ (Annex A, Annex B) for high bandwidth applications
- SELT and DELT support for loop testing and qualification
- Annex M for symmetric support up to 3Mbps
- ReachDSL for expanded coverage area

Benefits

- Stackable, with flexible mounting options to facilitate deployment and expansion, reducing costs
- Space saving 1U rack size maximizes use of Central Office and remote cabinet space
- IP Voice, IP Video and Data services supported with up to 28 Mbps utilizing ADSL2+ technology
- Interoperable with standards based CPE
- ReachDSL provides trouble-free customer installation and expanded coverage
- Environmentally hardened to allow for use in remote cabinets with no additional cooling required

Specifications

Dimensions

1.75" (4.4cm) high x 17.2" wide x 11.8" (300mm) depth

Weight

14 lbs.

Power

-48VDC & -60VDC, w/ Redundant feeds & fuses (36W consumption typical)

Interfaces

50-pin connectors for local loop and voice switch connections
 Gigabit Ethernet (copper and optional Fiber), 10/100BaseT Ethernet, 8xT1/E1 MLPPP
 Serial craft Interfaces, Alarm Relay connections (input/output)

Standards Support

Supports on a port-by-port basis:
 ANSI T1.413 Issue 2
 G.994.1 (G.handshake)
 G.997.1 (physical layer management)
 G.992.1 (full-rate G.dmt)
 G.992.2 (G.lite)
 G.992.3 (ADSL2) Annex A, B, L, M
 G.992.5 (ADSL2+) Annex A, B, M

ATM Specifications: 8 VCs per DSL

port

DHCP Option 82

Protocol Support

RFC1483/2684 Bridged Encapsulation
 IEEE 802.1Q VLAN w/ 802.1p Priority Output Queuing
 IGMP v2
 MAC and Host Address filtering

Management

SNMP, Embedded WEB Server, Telnet, CLI, RADIUS client support for management access

Bandwidth/Distance

Up to 28 Mbps (ADSL2+)
 Up to 2Mbps, supports distances > 18Kft (ReachDSL)

Regulatory Compliance

ANSI T1.413, ANSI T1.417, UK ANFRP, ETSI TR101 830-1
 NEBS, UL1950, C22.2 No. 950-95, FCC Part 15, EN60950, ENSS022, CISPR22, VCCI

Operating Requirements

Operating Temperature: -40C to 65C
 Storage Temperature: -40C to 80C
 Relative Humidity: 5% to 95%

Ordering Information

4214-A1-520 24p ReachDSL, T1 MLPPP, No Splitters
 4214-A1-522 24p ReachDSL, E1 MLPPP, No Splitters
 4214-A1-530 24p ReachDSL, T1 MLPPP, w/Internal Splitters
 4214-A1-531 24p ReachDSL, E1 MLPPP, w/Internal 600ohm Splitters
 4214-A1-532 24p ReachDSL, E1 MLPPP, w/Internal Splitters
 4219-A2-520 24p ReachDSL, GigE Uplink, No Splitters
 4219-A2-530 24p ReachDSL, GigE Uplink, w/Internal Splitters
 4219-A2-531 24p ReachDSL, GigE Uplink, w/Internal 600 ohm Splitters
 4224-A1-520 24p ADSL2+, T1 MLPPP Uplink, No Splitters
 4224-A1-522 24p ADSL2+, E1 MLPPP Uplink, No Splitters
 4224-A1-530 24p ADSL2+, T1 MLPPP Uplink, w/Internal Splitters
 4224-A1-531 24p ADSL2+, E1 MLPPP Uplink, w/Internal 600ohm Splitters
 4224-A1-532 24p ADSL2+, E1 MLPPP Uplink, w/Internal Splitters
 4229-A3-520 24p ADSL2+, GigE Uplink, No Splitters
 4229-A3-530 24p ADSL2+, GigE Uplink, w/Internal Splitters
 4229-A3-531 24p ADSL2+, GigE Uplink, w/Internal 600 ohm Splitters
 4234-A1-522 24p ADSL2+, E1 MLPPP Uplink, No Splitters
 4234-A1-532 24p ADSL2+, E1 MLPPP Uplink, w/Internal ISDN Splitter
 4239-A3-520 24p ADSL2+ Annex B, GigE Uplink, No Splitters
 4239-A3-532 24p ADSL2+ Annex B, GigE Uplink, w/Internal ISDN Splitters