



Z H O N E

24-Port ADSL2+ IP DSLAM

4214, 4219, 4224, 4229, 4234, 4239

- ✓ *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*

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

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.

Technical 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

- RFC 1483/2684 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



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