



## 48-Port IP DSLAM

The D-Link DAS-3248 is a 48-port IP-based DSL Access Multiplexer that provides ADSL access to CPE (consumer premise equipment) ADSL modems/routers at the subscribers' side. This DSLAM connects to the network service provider's network through its Ethernet interface. Using the latest ADSL/ADSL2/ADSL2+ technology, this IP DSLAM provides carriers a very cost-effective solution to offer their subscribers with features such as bandwidth management, traffic prioritization and data flow security control.

### Designed for Multi-Unit, Multi-Tenant Buildings

The D-Link DAS-3248 IP DSLAM delivers the next generation of high-performance business and residential DSL services. With the DAS-3248, carriers can offer digital video, high bandwidth Internet access.

### 48 ADSL Ports With Built-in Splitters

The DAS-3248 IP DSLAM provides 48 ADSL port connections, plus built-in ADSL/POTS splitter per port (16 ADSL ports via 2 RJ-21 (Telco-50) connectors, plus 16 splitter ports through 2 other RJ-21 (Telco-50) connectors). A 10/100BASE-TX Ethernet uplink connects the DAS-3216 to the carrier's network.

### VLAN Support for Enhanced Security

The DAS-3248 IP-DSLAM supports 802.1Q Tagged VLAN to provide complete subscriber isolation and enhance the ADSL network performance.

### Versatile Management

Up to 8 DAS-3248 can be cascaded and managed as one single unit. With the local RS-232 and Ethernet management port, plus inband SNMP/TELNET channel, the DAS-3248 provides local and remote management capabilities using a Command Line Interface (CLI), SNMP and Telnet. In addition, a Microsoft NT/SNMP based GUI EMS system provides service providers with low-cost, high-value central management capability of the DAS-3248.

### Complete ADSL Solution

With the DAS-3248 IP-DSLAM, D-Link provides service providers with a complete ADSL service solution. This IP DSLAM integrates and operates seamlessly with D-Link's extensive range of ADSL modems and routers Customer Premise Equipment (CPE).

## Product Function & Features

### Cost Saving Solution for Service Providers

- 48 ADSL/ADSL2/ADSL2+ subscriber interface ports
- 10/100/1000BASE-T and fiber Gigabit uplinks to carriers' backbones
- Built in POTS splitter per port
- Easy expansion: low-profile rack-mount boxes can be cascaded to maximum 8 units and managed as one single entity

### Flexible and Secure Configuration/Management

- Microsoft NT/SNMP-based GUI EMS
- Local RS-232 out-of-band CLI and remote in-band
- SNMP/TELNET management
- 3-levels of user privilege system management
- SNMP v1, v2c, v3 support
- Firmware upload/download via FTP or TFTP

### Advanced Functions for Broadband Service Offering

- IGMP snooping
- Up to 8 VCs, 128 MAC addresses per DSL port
- Up to 64 x 128 MAC addresses, 2K Multicast MAC addresses per DAS-3248 device
- Up to 512 VLANs (any value in 4096)
- Static VLAN and port-based VLAN support
- Configurable packet size (64 to 1536 bytes)
- Security functions: VLAN filtering, MAC filtering, IP filtering, MAC-based and IP-based Access Control List (ACL)
- 802.1d Spanning Tree for redundant backup bridge paths
- 802.1p traffic prioritization for QoS
- MAC-based and IP-based rate limiting
- 802.3ad link aggregation
- BRAS, 802.1x, DHCP server/relay, PPPoE, MPLS, VLAN-based VPN, L3 router, L2TP \*

\* Functions available in future firmware upgrade.

#### Device Ports

- 48 ADSL/ADSL2/ADS2+ ports (2 RJ-21 Telco-50 connectors)
- 48 splitter ports (2 RJ-21 Telco-50 connectors)
- 1 10/100/1000BASE-T copper Gigabit port
- 1 1000BASE-LX fiber Gigabit port supporting max. 10 km single-mode fiber cable distance
- 1 10/100BASE-TX Ethernet port
- 1 RS-232 console port

#### Protocol Handling Capability

- 8 VCs per DSL port
- 128 MAC addresses per DSL port
- 2K Multicast MAC addresses
- 512 VLAN (any value in 4096)
- Configurable packet size: 64 bits to 1542 bits

#### ATM MIBs

RFC 1514, 2515 Definitions of Managed Objects for ATM Management

#### ADSL/ADSL2/ADSL2+ Interface

- Downstream DMT data rate from 32Kbps to 10.5Mbps
- Upstream DMT data rate from 32Kbps to 1Mbps
- Standard compliance: ITU G.992.1 (G.DMT), G.DMT.bis, ITU G.992.2 (G.Lite), ANSI T1.413 issue 2, ITU G.994.1 (G.handshake) for ADSL, G.992.3 for ADSL2, G.992.5 for ADSL2+
- Extended power management capability to optimize power consumption for each application
- Maximum cable distance from DSLAM to subscriber CPE: 6.1 km (20,000 feet)

#### Management

- Microsoft NT/SNMP-based GUI EMS
- Local RS-232 CLI and Ethernet SNMP/Telnet management
- Remote in-band SNMP/Telnet management
- SNMP v.1, v.2c, v.3
- Up to 8 DAS-3248 cascaded units manageable as one single unit

#### Firmware Upload/Download

Through FTP or TFTP

#### Private MIBs

D-Link private MIBs

#### Protocol

STP, IGMP snooping, GMRP, GVRP, LACP, LACP marker, SNMP/UDP/IP/MAC/Ethernet

#### Diagnostic LEDs

- Power (per device)
- Maintenance (per device)
- Alarm (per device)
- Master (per device)
- 1 to 48 (ADSL ports)

#### Physical & Environmental

##### Power Requirement

-42 to -56 VDC

##### Power Supply

Auto ranging 90 to 250 VAC/50-60 Hz  
Internal universal power supply

##### Power Consumption

150 watts (max.)

##### Dimension

440 (W) x 400 (D) x 44 (H) mm (device only)  
19-inch standard rack-mount width, 1 U height

##### Weight

6.8 kg (device only)

##### Operating Temperature

0° to 50° C (32° to 122° F)

##### Storage Temperature

-30° to 70° C (22° to 158° F)

##### Humidity

5% to 90% RH non-condensing

#### Emission

- FCC Class A
- CE Class A

#### Safety

EN60950

### Ordering Information

**DAS-3248** 48-port IP DSLAM

# D-Link®

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