

VDSL2 DSLAM 10024 and 10048 Datasheet

Allied Data
TECHNOLOGIES



an Si2 Microsystems Company



Along with an exhaustive portfolio of Broadband residential and business gateways, Allied Data Technologies is introducing a range of small central office solutions. These solutions are excellent for smaller deployments with optimum price, functionality and performance. Our 1U “Pizzabox” sized solutions are designed to match our residential and business gateways and are, through the use of open standards, highly interoperable with all common suppliers of broadband Customer Premises Equipment.

The **10024** (24 Ports VDSL2 DSLAM) and **10048** (48 VDSL2 DSLAM) are fully compliant with the ITU-T G.993.2 standard with ADSL2+ fallback. The products support VDSL2 profiles up to profile 30, which offers a maximum upload and download speed of 100 Mbps. The system offers a very rich feature set (layer 2+) and extensively supports IGMP, QoS and Security which makes it an ideal platform to deploy new high bandwidth demanding services such as Video on Demand (VoD) and IPTV.

Multiple units can be stacked together as one virtual DSLAM and can be linked to a service provider metro/core network through a variety of uplink modules, including 1 GIGE SFP's and GPON.

Features

- ITU-T G.993.2 VDSL2 compliant
- Data rate: max. 100Mbps(down/upstream)
- Service distance: up to 3.5 Km (AWG26)
- 24 Subscriber ports
- UPBO (Upstream Power BackOff) function
- Radio Band Notching function
- U0, ADSL, ISDN band filtering
- Built-in low attenuation voice splitter
- High Performance Layer 2 Ethernet switching
- STP, PVSTP, RSTP
- Link aggregation, LACP
- Port based VLAN and Tagged VLAN (802.1Q)
- IGMP Snooping/IGMP Proxy
- Powerful packet filtering (Layer 1 ~ 4)
- NetBIOS/NetBEUI/NBT filtering
- 802.1p, DSCP marking/remarking
- SPQ, WRR, WFQ scheduling
- Easy Management (CLI, Telnet, SNMPv1/v2)
- System temperature/Fan status monitoring
- Uplink interfaces:
 - 100/1000Tx, 100Fx, 1000SFP, CWDM, GPON
- Full front access structure for easy installation and Maintenance.
- MAC address limitation per port
- Broadcast Storm Control

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Datasheet



Specifications

VDSL

- ITU-T G.993.2 VDSL2 Standard compliant
- Max. Data Rate :
 - Down/Up: 100/100 Mbps
- Max. Service Distance: 3.5 Km (AWG 26)
- UPBO (Upstream Power Back-Off) enable/disable
- ADSL band and U0 band enable/disable
- Amateur Radio (HAM) band enable/disable
- Data channel: Interleave/Fast Channel
- INP, TEQ, Trellis coding

Switching

- Layer 2 Switching (Store and Forward)
- Switching Performance:
 - Full throughput for all ports (Non-blocking)
 - 16 K MAC
 - 4095 VLANs
- Multicasting: IGMP snooping, IGMP proxy
- STP, PVSTP, RSTP
- Link aggregation, LACP
- DHCP relay with Option 82
- Security
 - Packet filtering (Access control list), Port flood guard
 - MAC address limitation per port
 - NetBIOS/NetBEUI/NBT filtering, Private DHCP server packet filtering
- QoS
 - 8 priority queues per port
 - 802.1p, ToS, DSCP marking/remarking

- Scheduling : SPQ, WRR, WFQ
- Congestion Control
- HOL Blocking prevention
- Back pressure, 802.1x

Management

- CLI, Telnet, RMON, SNMP v1/v2
- Remote S/W upgrade via TFTP and FTP
- Built-in Real-time clock, NTP, Built-in thermometer, Fan status monitoring

System

- Up to 24 subscriber ports
- Uplink Interface:
 - Fixed: 2 ports of 10/100/1000BaseTX(Fixed)
 - 1 slots of Optional Uplink Interface Module
 - 2 x 10/100/1000Base-Tx
 - 2 x 1000Base-X (SFP)
 - 1 x 1Gigabit GPON
- Dimensions: 440(w) x 280(d) x 66(h) mm
- 19 Inch standard rack mountable (1.5U)
- Front Access Structure
- Built-in Splitter, Surge protection circuit, power, fan and thermometer

Operation

- Input Power: 220 VAC 60Hz
- Power consumption: max. 87 W
- Operation Temp: -20 °C ~ 60 °C
- Operation Humidity: 0 ~ 90% non condensing
- Noise: max. 41dBA

