

MVD10024

100Mbps VDSL2 DSLAM

MVD10024 uses VDSL (**V**ery high speed **D**igital **S**ubscriber **L**ine) technology to deliver high-bandwidth access offers most efficient service such as VoD, IPTV and VoIP to both residential and business customers over existing telephone wiring.

MVD10024 complied with ITU-T G.993.2 VDSL2 standard is the high performance DSLAM switch which transports the traffic at the speeds of up to 100Mbps for both downstream and upstream over copper twisted pair and provides service up to 3.5km.

MVD10024 mountable on the standard 19 inch rack features compact design, easy installation and handy Ethernet LAN configuration capability.

MVD10024's built-in high performance switch supports Ethernet base Layer 2 switching function, and provides 24 VDSL subscriber ports, 2 of 10/100/1000Base-Tx fixed uplink port and 1 or 2 of various optional uplinks such as 10/100/1000Base-T, 100Base-Fx, 1000Base-X (SFP) interfaces. It also provides an Ethernet port and a console port for management purpose.

MVD10024 supports such additional Layer 2 functions as STP (Spanning Tree Protocol), Link aggregation, port-based VLAN, 802.1Q, mirroring and DHCP relay. Its stacking function capable of configuring multiple systems with one IP address provides the means of convenient system management. IGMP snooping and IGMP proxy are also provided for efficient transmission of multicast traffic.

MVD10024 supports powerful packet filtering (Layer 1 to Layer 4) functions and QoS for service security and quality improvement. NetBEUI/NetBIOS filtering, private DHCP server packet filtering and MAC address limitation per port can be realized through such packet filtering function.



Features

- ITU-T G.993.2 VDSL2 compliant
- Data rate: max. 100Mbps(down/upstream)
- Service distance: up to 3.5 Km (AWG 26)
- 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
- Various uplink interfaces:
100/1000Tx, 100Fx, 1000SFP, CWDM, GEAPON
- Full front access structure for easy installation and Maintenance.
- MAC address limitation per port
- Broadcast Storm Control

Specifications

VDSL

- ITU-T G.993.2 VDSL2 Standard compliant
- Max. Data Rate :
 - Down/Up: 100 Mbps/100 Mbps
- Max. Service Distance: 3.5 Km (AWG 26)
- UPBO (Upstream Power Back-Off) enable/disable
- ADSL band and UO 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 priorities 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)
 - Modular: 2 ports of 100BaseFX, 1000BaseTX or SFP
1 port CWDM
1 port GEAPON (Technovus or Passave)
- 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

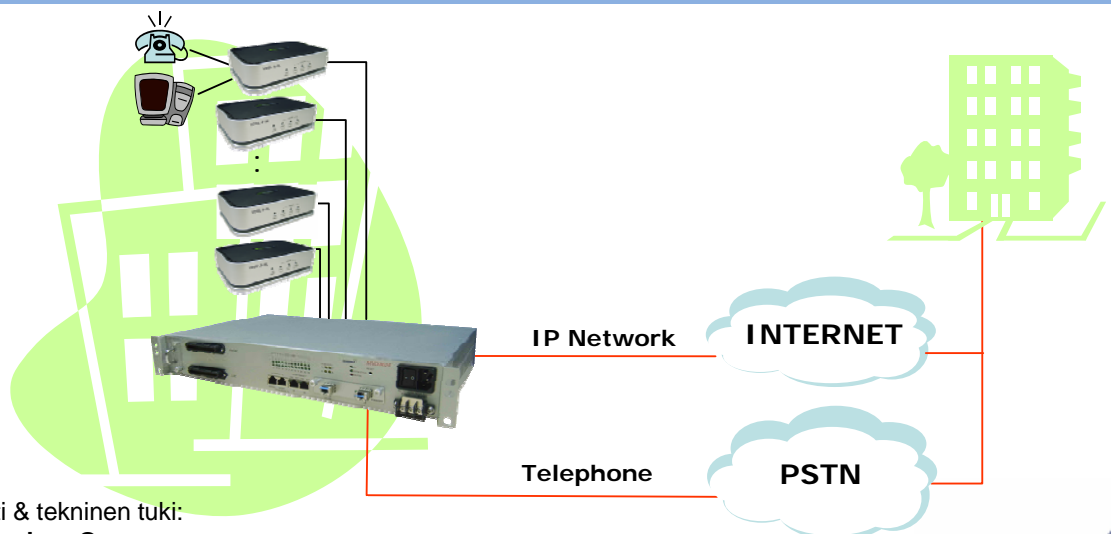
- Input Power: 220 VAC 60Hz
- Power consumption: max. 87 W
- Operation Temp: -20 °C ~ 60 °C
- Operation Humidity: 0 ~ 90% non condensing
- Noise: max. 41dBA

MVL100D5 (VDSL2 Modem)

- Max. Data Rate: 100Mbps both for down/upstream
- Ethernet Interface: 10/100Base-Tx(RJ-45) 1 port
- VDSL Interface: RJ-11 1 port
- Phone Interface: RJ-11 1 port
- Remote Software Upgrade via EOC interface
- Auto-Power OFF (Optional)
- System Management
 - CLI : RS-232C (Optional)
 - Management Path : EOC Interface

- LED: PWR, LINK, DATA, LAN, ALM (optional)
- Built-in voice splitter and surge protection circuit
- Dying gasp function (Optional)
- Power Adaptor
 - AC Input Voltage : 100~220VAC
 - DC Output Voltage : +5V / 2A
 - Max. Output Power : 10W
- Operation Temp: 0 °C ~ 40 °C
- Dimensions: 160(W) x 40(H) x 110(D) mm
- Weight: max. 400g

MVD10024 & MVL100D5



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