



- Complies with VDSL2 standards including ITU-T G.993.2 and G.994.1
- 2/8-port environmental-hardened OSP DSLAM with downstream/upstream performance of up to 100/100 Mbps (30a profile)
- VDSL2 bonding, ADSL2+ fallback & bonding
- Complete Triple Play functions
- Complete QoS for service differentiation

Compact, Sealed and Full-featured OSP VDSL2 Technology

Benefits

Compliant with ITU-T G.993.2 and G.994.1

The VES-1602FE-57/VES-1608FE-57 comply with the G.993.2 and 994.1 standards to ensure interoperability with standard-compliant VDSL CPE.

Environmentally hardened with 30a profile support

The VES-1602FE-57/VES-1608FE-57 support 30a profile with 100 Mbps throughput in both upstream and downstream traffics. With two Gigabit Combo ports to connect the upper layer network, the VES-1602FE-57/VES-1608FE-57 can support non-blocking interconnection from the subscriber ports to the network interface ports, and its environmental hardened design makes it possible for most outdoor deployment and application scenarios.

Triple Play ready

The VES-1602FE-57/VES-1608FE-57 support IGMP snooping to prevent unnecessary forwarding of multicast traffic to all subscribers, and thus optimizes bandwidth utilization for multicast applications such as broadcast video. The VES-1602FE-57/VES-1608FE-57 also support multicast VLAN features to distribute the source to all the VLANs that request the video stream. With built-in splitter over ISDN, the VES-1602FE-57/VES-1608FE-57 allow operators to provide Triple Play services over the same copper wire.

Complete QoS for service differentiation

The VES-1602FE-57/VES-1608FE-57 support not only 802.1x port-based access control for subscriber authentication, but also defines a limited number of MAC addresses that can access the network from a particular port. With rate limiting on the subscriber ports for services with 64 Kbps increments, service providers are allowed to offer tiered services.

VES-1602FE-57
VES-1608FE-57
2/8-port
Environmental-Hardened
VDSL2 Box DSLAM





VES-1602FE-57 VES-1608FE-57 2/8-port Environmental-Hardened VDSL2 Box DSLAM

Specifications

System Specifications

- Fixed rate and rate adaptive
- Support DMT MCM (Multi-Carrier Modulation) defined ITU-T Rec. G.993.2
- Power back off
- Standard RFI configuration
- Resynchronization
- ADSL/POTS band off
- Interleave delay setting
- Support the VDSL2 profiles including 8a, 8b, 8c, 8d, 12a, 12b 17a and 30a profiles as specified in ITU-T Rec. G.993.2
- The profiles can be programmable by command and automatically adapted according to the line condition on per VDSL2 line basis
- The transmitter signal complies with the PSD mask specified in ITU-T Rec. G.993.2
- Support enable/disable UPBO of shape the VDSL2 downstream signal spectrum to mitigate far-end crosstalk
- Support the capability of impulse noise protection (INP) as defined in ITU-T Rec. G.993.2
- Loop Diagnostics (SELT & DELT)

Hardware Specifications

- 2/8 quick connectors for 2-port/8-port VDSL2 subscribers (with surge protection)
- 2/8 quick connectors for ISDN interface (with surge protection)
- One console port for local management (DB-9)
- Two 100/1000Base-TX (RJ-45) or two mini GBIC (SFP) for uplink and cascading
- Auto-Negotiation
- Auto-MDI/MDI-X
- Compliant with IEEE 802.3/802.3u
- Back pressure flow control for half-duplex
- IEEE 802.3x flow control for full-duplex
- Out of band Mgmt interface: RJ45 header with 10/100M UTP, support Auto MDI/MDIX
- One RJ-45 alarm contact
- AC universal Input connector
- AC outlet (optional) with an extension cord to fit various power connector in different
- Power rating: 100 - 240V AC, 50/60 Hz
- Power consumption: 38 Watt

Physical Specifications

- Item weight: 7,000 g (15.47 lb)
- Item dimensions (WxDxH): 380 x 390 x 104 mm (14.96" x 15.35" x 4.09")
- Packing weight: 10,500 g (23.2 lb)
- Packing dimensions (WxDxH): 560 x 523 x 275 mm (22.04" x 20.59" x 10.82")

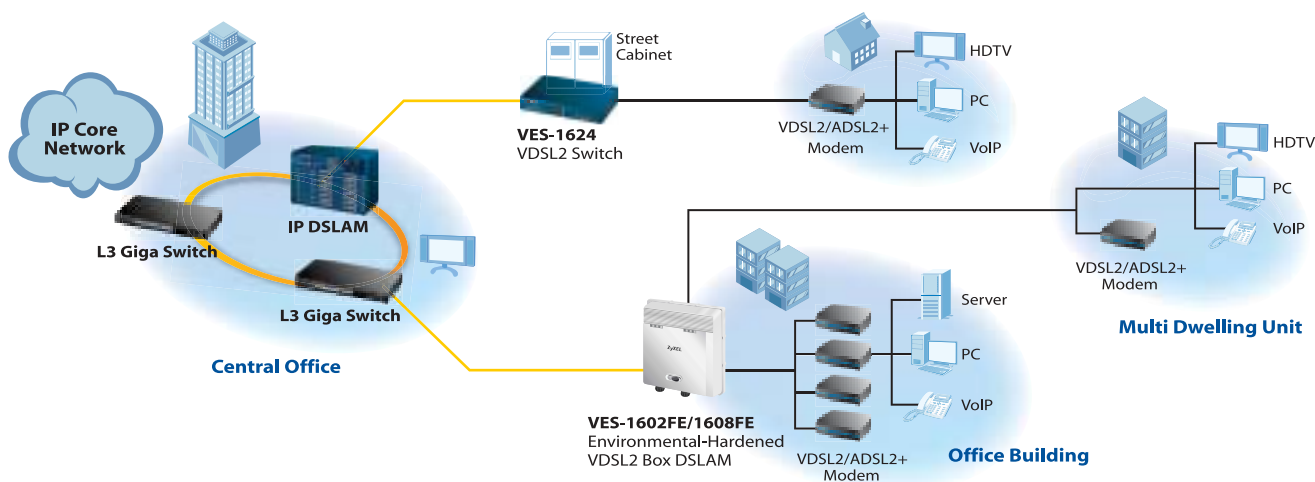
Environmental Specifications

- Operating environment:
 - Temperature: 0°C ~ 50°C
 - Humidity: 10% ~ 95% (non-condensing)
- Storage environment:
 - Temperature: -40°C ~ 70°C
 - Humidity: 5% ~ 95% (non-condensing)

Certification

- RoHS
- K.20
- ETSI300-019
- Safety
 - EN60950-1
 - CSA60950-1
 - UL60950-1
 - IEC60950-1
- EMC
 - FCC Part 15 Class A
 - EN55022 Class A
 - ETSI300-386

Application Diagram



For more product information, visit us on the web at www.ZyXEL.com



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