VDSL2 DSLAM

ForeFront™ 3210P Series

The Patton Model 3210P is the ideal choice for system integrators, ISPs, and carriers to deliver cost-effective, triple-play services, or high speed private LAN connectivity over existing twisted pair infrastructures.

Bandwidth Rich
Realize bandwidth in excess of 100 Mbps.

Operates Over Twisted Pair or Cat5+
Near fiber speeds without the cost of new cable or fiber installations or the hassles of wireless line of site.

Full VDSL2 Profile Support
8a/8b/8c/8d/12a/12b/17a/30a.

Secure
Supports port security and MAC address filtering.

Layer 2 Ethernet Switch
Configurable for port-based or protocol-based VLAN and VLAN mapping. Traffic classification features include QoS, ToS, and DSCP.

Flexible Ethernet Uplink Options
Dual auto-sensing 10/100/1000 full or half duplex Ethernet uplinks; copper or fiber selectable.

Easy to Monitor and Control
In-band (RS-232 console port) and out-of-band management capabilities (TELNET and HTTP), SNMP v1/v2/v3.

Patton's Model FF3210P is a 1.5U compact 24-port VDSL2 IP DSLAM with 2 Gigabit Ethernet combo interfaces and built-in POTS/ISDN splitter. It is compliant to ITU-T G.993.2 standard and supports a VDSL2 30a profile that features 100 Mbps of symmetric data rate over the existing copper wires.

The FF3210P is an ideal choice for carriers, ISPs, and system integrators that are looking for a high performance broadband solution for their triple play (video, voice and data) applications.

The ForeFront 3210P is designed to connect with the growing carrier Ethernet infrastructure, providing great flexibility for service providers to customize their services and bringing them reliable, secure and high quality network access at low cost.

In addition, FF3210P offers user-friendly management interfaces that enable service providers to monitor and control their services in a highly secure and efficient way. It features support for port-based/protocol-based VLAN, Q-in-Q, VLAN mapping, VLAN translation, L2/L3 frame filtering and secured forwarding.

Furthermore, the FF3210P supports traffic classification including CoS (802.1), VLAN ID, ToS and DSCP. With all these powerful and advanced features, the ForeFront VDSL2 IP DSLAM is the perfect solution for network service providers to deploy their broadband access, IP TV, Hospitality and MDU applications.

Patton offers a complete portfolio of high-speed access routers. Visit www.patton.com to view our broad selection of networking and connectivity products.

Model 3210P ForeFront™ VDSL2 DSLAM

Compatible with 3rd Party CPE and Patton Model 1069

Using Patton's ForeFront VDSL2 DSLAM, up to 24 full service links can be routed throughout campus and various MxU environments. The Model FF3210P aggregates the IP services delivered from the ISP or Service Providers with the POTS delivered from the PSTN. The POTS and Ethernet signals are then aggregated and sent over an already existing 2-wire telephony grade connection.

The VDSL2 standalone unit is placed in each room to split the signal back into Ethernet (data) and POTS/ISDN (voice) for delivery to the end-user. Channel selectable symmetrical data rates up to 100 Mbps allow for a differentiation of services, and increased distance capabilities.

Specifications*

VDSL2 Line Interface
RJ-21 connector for 24 x VDSL2 Port

Modulation
Support DMT VDSL2 ITU-T G.993.2

Profile Support
Support VDSL2 Profiles: 8a, 8b, 8c, 8d, 12a, 12b, 17a and 30a

Transmission
Up to 100Mbps symmetrical line rates

Frequency Range
Up to 30 MHz

POTS/ISDN Interface
RJ-21 connector for 24 x POTS/ISDN splitter • 600 Ohm (Standard) • 900 Ohm (Special Order) • No Splitter

LED Indicators
System: PWR • Gigabit Port: LINK/ACT, SPEED 1000/100 • Alarm: RUN/ALARM • VDSL: VDSL Link/Sync

Ethernet
2 x Gigabit Ethernet Combo ports (100/1000 Based-T and SFP)

Ethernet Standards Support
802.1d L2 Bridging • DHCP/Client/Relay /Option82 • IEEE 802.1q VLAN Tag base • VLAN Stacking (Q-in-Q) • IEEE 802.1d Spanning Tree Protocol (STP) • IEEE 802.3ad Link Aggregation

Protocol Support
IGMP Snooping/Proxy v1, v2 and v3 • Multicast Forwarding with IGMP Snooping v1 and v2 (RFC 1112 and RFC 2236) • Multicast MAC address mapping • Up to 512 Multicast Channels • Profile-based Multicast Access Control (up to 24 profiles)

Management Interface
Local Management: RS-232 and Telnet CLI, Web/SNMP management • Remote in-band Management: Web/SNMP/Telnet • Support SNMP v1/v2/v3

Security
L2 Frame Filtering by MAC Addresses • L3 Frame Filtering by IP Addresses, protocol ID, and TCP/UDP • DHCP and ARP Broadcasting Frames Filtering • Support Secured Forwarding

MTBF
48,928 hrs (MIL-HDBK-217 FN2; 50C, Ground Benign,Controlled)

Power Supply
Internal 100–240 VAC, 50–60 Hz, Power Consumption: 90 Watts maximum

Compliance
FCC Part 15A, CE Mark, EMC Directive 89/336/EEC, Low-Voltage Directive 73/23/EEC; EN60950
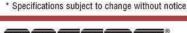
Environment
Temperature: -10 to 50°C • Storage Temperature: -40 to 70°C • Humidity: 5 to 95% (non-condensing)

Dimensions
435 x 260 x 67 mm, 1.5U height

Weight
0.4 lbs (181 g)

* Specifications subject to change without notice.