



# 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](http://www.patton.com) to view our broad selection of networking and connectivity products.

Compatible with 3rd Party CPE and Patton Model 1069

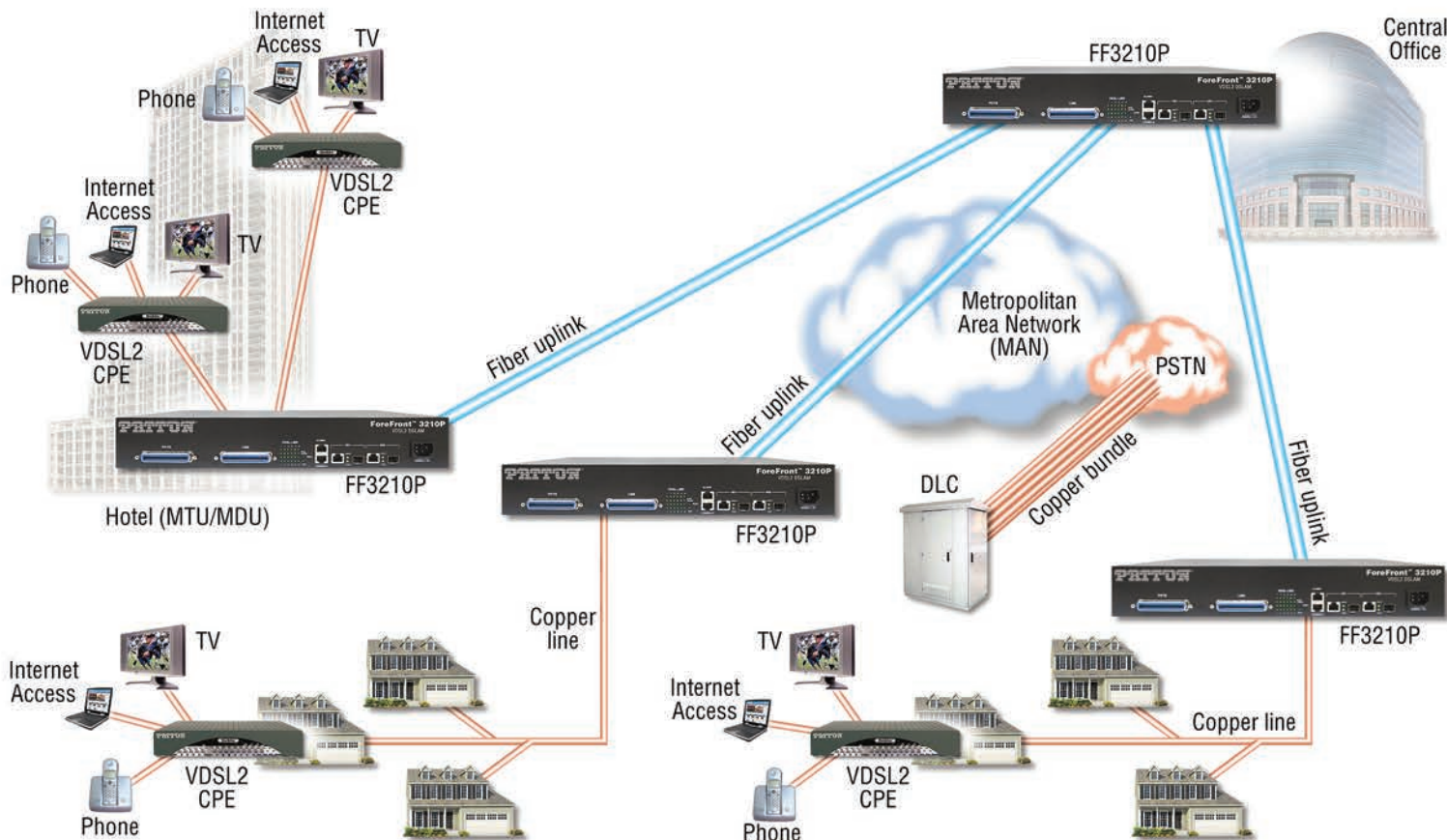


Model 3210P ForeFront™ VDSL2 DSLAM

## Typical Application

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.

**PATTON**  
Let's Connect!™

Patton Electronics Co.  
7622 Rickenbacker Drive  
Gaithersburg, Maryland 20879  
USA  
Phone +1 301 975 1000  
Fax +1 301 869 9293  
E-mail [sales@patton.com](mailto:sales@patton.com)  
Web [www.patton.com](http://www.patton.com)

Patton-Inalp Networks AG  
Meriedweg 7  
CH-3172 Niederwangen  
Switzerland  
Phone +41 (31) 985 25 25  
Fax +41 (31) 985 25 26  
E-mail [sales@inalp.com](mailto:sales@inalp.com)  
Web [www.inalp.com](http://www.inalp.com)

Patton Hungary Zrt  
Gábor Dénes utca 4.  
Infopark Building C  
Budapest H-1117  
Hungary  
Phone +36 1 439 4840  
Fax +36 1 439 4844  
E-mail [ce@patton.com](mailto:ce@patton.com)  
Web [www.patton.com](http://www.patton.com)

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