Patton's OnSite Model 3200 offers the reliability, reach, and rates essential for today's high speed, broadband Ethernet first-mile services and remote office connectivity.

Overview

(/company/newsrelease.asp?id=1871) The Patton OnSite™ Model 3200 simplifies and provides cost effective network extension by utilizing pre-existing twisted pair infrastructure enables service providers to offer broadband or data backhaul services to businesses, governments, and various institutions over existing last-mile, copper infrastructure. Today, more than ever, operators are finding the business case for leveraging their existing copper networks to be highly attractive from an ROI and initial investment perspective over fiber roll-outs.

Features

- **Standards Based G.SHDSL speeds to 22.8 Mbps**—Get reliable broadband connectivity with TC-PAM full-duplex symmetric rates and distances exceeding 24,000 feet (7,300 meters). Additional features allow for line rates up to 60Mbps.
- **EFM**—Pure Ethernet solution provides seamless integration into today's and future networks.
- **MTU Support**—1,792 bytes.
- **QoS, CoS, and VLAN Support**—Make the most out of your service offerings or ensure top quality network connections with advanced traffic management features.
- **Interoperable with DSLAMs or Point-to-Point**—Take advantage of Patton reliability whether you connect back to back or to third-party DSLAMs
- **4 x 10/100 Ethernet Switch**—Make up to 4 network connections easily. Built in MDI-X auto

The Model 3200 is Ethernet First Mile (EFM) compliant. EFM—also called pure Ethernet—lowers OPEX and CAPEX by resolving one of the biggest deficiencies in carrier networks, the lack of interworking arrangements among different protocols such as Frame Relay, TDM, ATM, and of course DSL. Using EFM allows for more efficient and trouble-free networking environments. Service providers can concentrate on providing differentiated services instead of concentrating on resolving their latest issue of protocol conversions.

Patton's 3200 G.SHDSL.bis modem incorporates next-generation SHDSL technology with multi-pair bonding to offer unmatched rate, reach and reliable Ethernet connectivity, providing standards based symmetrical 22.8 Mbps of bandwidth over 4-pair (8-wire) at distances up to 1.8 miles (2.9 km). For point to point connectivity line rates up to 60Mbps can be achieved. The OnSite 3200 comes standard with a 4-port fast Ethernet switch with full QoS and CoS features. VLAN (802.1q) capabilities include 4 levels of priorities, traffic flow control, and rate control. These traffic management and QoS features enable service providers to provision for differentiated services and/or SLAs.

The OnSite 3200 is a complete, managed, end-to-end system when used either back-to-back or with a 3rd party ipDSLAM. The 3200 is the clear and easy choice for mission-critical networking.

cross over switches eliminates messy and confusing cable configurations.

- **WWW/SNMP Manageable**—Built-in VT-100 console port makes setup a snap, and you can use the embedded HTTP/SNMP agent to manage the Model 3200 from anywhere in the world.

Distance Chart 3200 Series (Per Wire Pair)

DSL Line Rate		26 AWG/0.4mm		24 AWG/0.5mm		22 AWG/0.65mm	
N	kbps	kft	km	kft	km	kft	km
3	192	21.5	6.6	27.2	8.3	34.8	10.6
4	256	19.5	5.9	24.7	7.5	31.5	9.6
8	512	17.5	5.3	22.1	6.7	28.3	8.6
12	768	16.5	5	20.9	6.4	26.7	8.1

16	1024	16	4.9	20.2	6.2	25.9	7.9
20	1280	15	4.6	19	5.8	24.3	7.4
24	1536	14.5	4.4	18.3	5.6	23.5	7.2
32	2048	13.5	4.1	17.1	5.2	21.8	6.6
36	2304	13	4	16.4	5	21	6.4
60	3840	10	3	12.6	3.8	16.2	4.9
72	4608	9.5	2.9	12	3.7	15.4	4.7
89	5696	8.5	2.6	10.8	3.3	13.8	4.2

Distance Chart Model 3202/4W (4 Wire/2 Pair)

DSL Line Rate		26 AWG/0.4mm		24 AWG/0.5mm		22 AWG/0.65mm	
N	kbps	kft	km	kft	km	kft	km
6	512	19.5	5.9	24.7	7.5	31.5	9.6
8	512	19.5	5.9	24.7	7.5	31.5	9.6
16	1024	17.5	5.3	22.1	6.7	28.3	8.6
24	1536	16.5	5	20.9	6.4	26.7	8.1
32	2048	16	4.9	20.2	6.2	25.9	7.9
40	2560	15	4.6	19	5.8	24.3	7.4
48	3072	14.5	4.4	18.3	5.6	23.5	7.2
64	4096	13.5	4.1	17.1	5.2	21.8	6.6
72	4608	13	4	16.4	5	21	6.4
120	7680	10	3	12.6	3.8	16.2	4.9
144	9216	9.5	2.9	12	3.7	15.4	4.7
178	11392	8.5	2.6	10.8	3.3	13.8	4.2

Distance Chart Model 3202/8W (8 Wire/4 Pair)

DSL Line Rate		26 AWG/0.4mm		24 AWG/0.5mm		22 AWG/0.65mm	
N	kbps	kft	km	kft	km	kft	km
12	768	21.5	6.6	27.2	8.3	34.8	10.6
16	1024	19.5	5.9	24.7	7.5	31.5	9.6
32	2048	17.5	5.3	22.1	6.7	28.3	8.6
48	3072	16.5	5	20.9	6.4	26.7	8.1
64	4096	16	4.9	20.2	6.2	25.9	7.9
80	5120	15	4.6	19	5.8	24.3	7.4
96	6144	14.5	4.4	18.3	5.6	23.5	7.2
128	8192	13.5	4.1	17.1	5.2	21.8	6.6

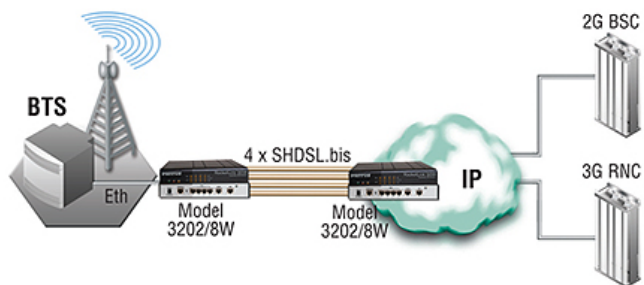| 144 | 9216 | 13 | 4 | 16.4 | 5 | 21 | 6.4 |
240	15360	10	3	12.6	3.8	16.2	4.9
288	18432	9.5	2.9	12	3.7	15.4	4.7
356	22784	8.5	2.6	10.8	3.3	13.8	4.2

Applications

The Model 3200 G.SHDSL EFM modems are ideal for delivering remote network access for inter-office connectivity. Businesses can take advantage of the already installed copper infrastructure and pass up to 22.8 Mbps of symmetrical data reliably at distances of up to 1.8 miles (2.9 km).

Utilize pre-existing copper infrastructure for mobile backhaul to reduce Last Mile transport costs and to connect to new packet-switched networks.

Remote Office Connectivity

Provide network connectivity to branch offices over voice-grade twisted pair

Remote office

Up to 24,000 feet (7300 m)

Main office

Wireless Backhaul

BTS

Eth

4 x SHDSL.bis

Model 3202/8W

Model 3202/8W

IP

2G BSC

3G RNC
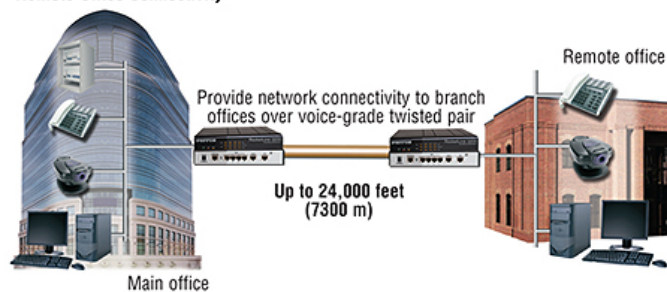
Specifications

G.SHDSL Connector	Shielded RJ-45
G.SHDSL Specifications	ITU-T G.991.2.(2004); 2Base-TL; EFM Bonding (IEEE 802.3ah PAF)
DSL Modulation	TC-PAM 16; 32; 64/128
Ethernet Connector	4 x 8-position shielded RJ-45. Auto-sensing 10/100Base-TX with half or full-duplex operation.
MTU Support	1,792 bytes
LAN Protocols	802.1d Transparent Bridging, 2K MAC address learning bridge
VLAN Support	IEEE 802.1q VLAN Tagging; Port Based VLAN, up to 4K VLANs; VLAN Stacking (Q-in-Q)
QoS Support	Rate limiting rule-based/port-based; Traffic classification based on port/802.1p/DSCP (Differentiated Services Code Point); WRR (Weighted Round Robin)/SPQ (Strict Priority Queing) scheduling algorithm
Management Connector	WEB: Shielded RJ-45; Console: Shielded RJ-45
Management Interface	Web based GUI; CLI for local and console access; password protected; SNMP v1/v2 (RFC 1157/1901/1905) agent and MIB (RFC 1213/1493); EFM OAM (IEEE 802.3af); Software upgradeable via web-browser/TFTP
Front Panel Indicators	Power, Alarm, Diagnostic, WAN Link (x4), Ethernet Link (x4), Ethernet 100M (x4)
Power Supply	AC: Universal Input (UI)—90–240 VAC (50~60Hz)
Compliance	FCC Part 15A, CE Mark, EMC Directive 89/336/EEC, Low-Voltage Directive 73/23/EEC
Environment	Operating Temperature: 0–50°C Storage Temperature: -40- 85° C
Dimensions	7.67L x 1.89W x 6.61D in. (195L x 48H x 168D mm)
Weight	2.86 lbs (1300 g) without power supply

Ordering

#	Model #	Description	Availability
1	3202/2W/EUI	OnSite 2 Wire G.SHDSL.bis EFM Modem; 4 x 10/100 Manged Switch; 100-240VAC	General Availability
		+ Accessories	
2	3202/4W/EUI	OnSite 4 Wire G.SHDSL.bis EFM Modem; 4 x 10/100 Manged Switch; 100-240VAC	General Availability
		+ Accessories	
3	3202/8W/EUI	OnSite 8 Wire G.SHDSL.bis EFM Modem; 4 x 10/100 Manged Switch; 100-240VAC	General Availability
		+ Accessories	

Item Number	Item Description	Price
SVC-SmartCare-BH (/support/support.asp)	Premium Support for Business Hours	Contact us (/howtobuy/) for availability and pricing.
SVC-SmartCare-24/7 (/support/support.asp)	Premium Support, 24 x 7 Coverage	Contact us (/howtobuy/) for availability and pricing.
SVC-SmartAssist-BH (/support/support-professional.asp)	Business Hour Support Services	Contact us (/howtobuy/) for availability and pricing.
SVC-SmartAssist-AH (/support/support-professional.asp)	After Hours Support Services	Contact us (/howtobuy/) for availability and pricing.
SVC-ENHWAR1 (/support/support-warranty.asp)	1 Year Enhanced Warranty	Contact us (/howtobuy/) for availability and pricing.
SVC-ENHWAR2 (/support/support-warranty.asp)	2 Year Enhanced Warranty	Contact us (/howtobuy/) for availability and pricing.

SVC-ENHWAR3 (/support/support-warranty.asp)	3 Year Enhanced Warranty	Contact us (/howtobuy/) for availability and pricing.
SVC-ENHWAR4 (/support/support-warranty.asp)	4 Year Enhanced Warranty	Contact us (/howtobuy/) for availability and pricing.
SVC-ENHWAR5 (/support/support-warranty.asp)	5 Year Enhanced Warranty	Contact us (/howtobuy/) for availability and pricing.
SVC-EXTWAR2 (/support/support-warranty.asp)	2 Year Extended Warranty	Contact us (/howtobuy/) for availability and pricing.
SVC-EXTWAR3 (/support/support-warranty.asp)	3 Year Extended Warranty	Contact us (/howtobuy/) for availability and pricing.
SVC-EXTWAR4 (/support/support-warranty.asp)	4 Year Extended Warranty	Contact us (/howtobuy/) for availability and pricing.
SVC-EXTWAR5 (/support/support-warranty.asp)	5 Year Extended Warranty	Contact us (/howtobuy/) for availability and pricing.
SVC-NETENG-HOUR (/support/support-professional.asp)	Network technician hour rate for pre-config services, after hours support, etc.	Contact us (/howtobuy/) for availability and pricing.

Related Products

G.SHDSL CPE (/products/product_detail.asp?id=270)

ipRocketLink™ Model 3086 (/products/product_detail.asp?id=60)

G.SHDSL Router-Modem with Serial WAN & Ethernet Interfaces

Model 3201 & 3241 (/products/product_detail.asp?id=64)

For new-generation alternatives, please see Patton's OnSite 3300 G.SHSDL.bis EFM IAD.

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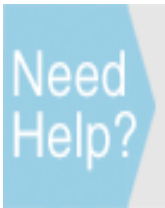
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