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Dial-Up Remote Access Servers

ForeFront 3120 Dial-Up Remote Access Server (RAS), 16 to 120-port, V.92, V.110, V.90, K56Flex, V.34+, and ISDN



ForeFront

Patton's DialFire™ Model 3120 Quad T1/E1/PRI Remote Access Server (RAS) provides 96 or 120-ports, each supporting V.92, V.110, V.90, K56Flex™, V.34+, and ISDN, delivers enhanced dial-up remote access, brings expanded service offerings while ensuring maximum up-time, and fosters high availability by eliminating single points-of-failure.

Overview

The Patton DialFire™ Model 3120 Remote Access Server supports up to 120 digital ISDN or analog (V.110, V.92, V.90, K56Flex, V.34, etc.) modem connections in a single 1U high (1.75 in./4.45 cm) rack-mountable chassis. The Model 3120 is the highest density, lowest profile remote access server available anywhere. It has two 10/100-Mbps Ethernet ports for load sharing and traffic balancing.

Features

- **High-Density 96/120 Port RAS**—Lowest-cost dial-up WAN access system available
- **Dynamic Modem/Digital Support**—All modems support V.110, V.92, V.44, V.90, K56Flex, V.34+ or digital ISDN connections
- **Dual-Redundant Power Supplies**—Supports two AC (115VAC or 230VAC), two DC, or a mix of AC (115VAC or 230VAC) and DC power supply modules
- **Standard Dual 10/100 Ethernet Ports**—Flexible integration options for your high performance network
- **Web-Based**—An embedded HTTP server provides complete configuration and control using standard web browsers
- **Made in the USA** — This Patton equipment is designed by Patton engineers and built in our Gaithersburg, Maryland facility. Patton's

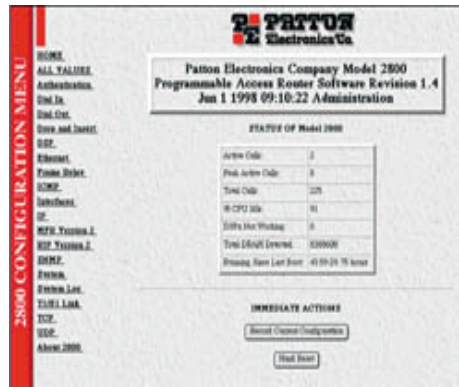


American-made manufacturing process delivers high-quality networking solutions with reliability you can trust.

- A Removable dual-redundant power standard**—Supports two AC (115VAC or 230VAC), two DC, or a mix of AC (115VAC or 230VAC) and DC power supply modules

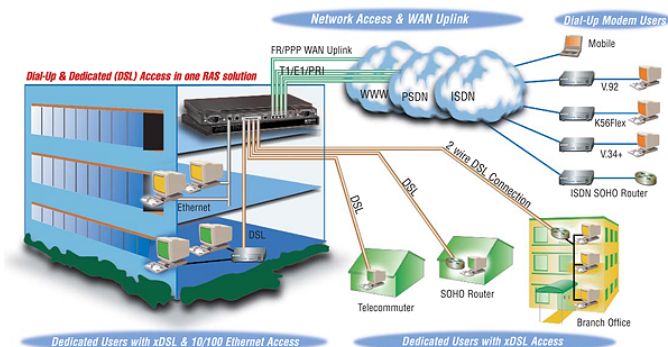


- B Dual 10/100 Ethernet Ports**—Flexible integration options for your high-performance network
- C SNMP/HTTP management**—Embedded HTTP server provides complete configuration and control using your web browser



- D Quad T1/E1 ports for 120 RAS or uplink services**—Terminate any combination of 120 modems/ISDN connections, or expand into remote locations and use the 3120 as a complete PoP solution

Applications



Specifications

Number of Connections: Up to 120

Power Supplies: Dual Redundant AC (115VAC or 230VAC) or DC

Ethernet Ports: Two 10/100Base-T

WAN Ports: Four

Modem Modulations: V.92, V.90, K56Flex™, V.34 Annex 12, V.34, V.32bis, V.32, V.23, V.22, V.22bis, V.21, Bell 212A, Bell 202, Bell 103, EIA-PN-2330, V.8, V.8bis, Sync/Async receiver/transmitter for V.14, V.42/V.42bis error correction & compression

PSTN Signaling: E1 Primary Rate interface (Q.931), E1 MFR2 (R2), T1 Primary Rate Interface, T1 Robbed bit with Loop/Ground Start or E&M Wink, E&M Immed, Taiwan R1 and Drop & Insert

Management Services: HTTP, SNMP, TELNET Dial-in and Ethernet or RS-232 console port, SYSLOG client, Remote software upgrade via FTP, User configurable login prompts and banners

Authentication: RADIUS, PAP/CHAP, Username/Password, and Static Users Database (111 Entries)









Software Upgrades: Achieved through Flash upgrades via FTP. Software available at www.patton.com/support/upgrades/ (<https://www.patton.com/support/upgrades/>)

Protocol Services: TCP/IP suite with extensive protocol statistics—ICMP/TFTP/FTP/RLOGIN/TELNET • Ethernet ARP, Proxy ARP and RARP protocols • Point-to-Point Protocol (PPP) • SLIP protocol • Van Jacobson TCP header compression PPP address and protocol compression • RADIUS authentication and accounting, with support for primary and secondary servers • RIP, RIPv2 and OSPF dynamic route distribution* • user configurable static routes • MultiLink PPP • Multi-chassis MultiLink • Layer 3 and Layer 4 IP Filtering • NFAS • DNIS

Dial-out Services: Dial-out with support for multi-link PPP • Single-line call-back • Remote authentication using PAP and CHAP and session time

* OSPF feature in development. Call for availability.

Ordering

# Model #	Description	Availability
1 3120/120B/R-115  Accessories	REMOTE/LAN ACCESS, 120 call, Redundant 115VAC PS	General Availability
2 3120/120B/R-230  Accessories	REMOTE/LAN ACCESS, 120 call, Redundant 230VAC PS	General Availability
3 3120/120B/R-48  Accessories	REMOTE/LAN ACCESS, 120 call, Redundant 48VDC PS	End of Life-Notice
4 3120/30B/R-115  Accessories	Remote/LAN Access Server 30 call, Redundant 115VAC PS	End of Life-Notice
5 3120/30B/R-230  Accessories	Remote/LAN Access Server 30 call, Redundant 230VAC PS	End of Life-Notice
6 3120/60B/R-115  Accessories	REMOTE/LAN ACCESS, 60 call, Redundant 115VAC PS	General Availability
7 3120/60B/R-230  Accessories	REMOTE/LAN ACCESS, 60 call, Redundant 230VAC PS	General Availability
8 3120/96B/R-115  Accessories	REMOTE/LAN ACCESS, 96 call, Redundant 115VAC PS	End of Life-Notice
9 3120/96B/R-48  Accessories	96 PORT RAS, 96 call, Redundant 48VDC PS	End of Life-Notice

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. Contact us (/howtobuy/) for availability and pricing. Contact us (/howtobuy/) for availability and pricing.
SVC-ENHWAR1 (/support/support-warranty.asp)	1 Year Enhanced Warranty	Contact us (/howtobuy/) for availability and pricing. Contact us (/howtobuy/) for availability and pricing. Contact us (/howtobuy/) for availability and pricing.
SVC-ENHWAR2 (/support/support-warranty.asp)	2 Year Enhanced Warranty	Contact us (/howtobuy/) for availability and pricing. Contact us (/howtobuy/) for availability and pricing. Contact us (/howtobuy/) for availability and pricing.
SVC-ENHWAR3 (/support/support-warranty.asp)	3 Year Enhanced Warranty	Contact us (/howtobuy/) for availability and pricing. Contact us (/howtobuy/) for availability and pricing. Contact us (/howtobuy/) for availability and pricing.
SVC-ENHWAR4 (/support/support-warranty.asp)	4 Year Enhanced Warranty	Contact us (/howtobuy/) for availability and pricing. Contact us (/howtobuy/) for availability and pricing. Contact us (/howtobuy/) for availability and pricing.
SVC-ENHWAR5 (/support/support-warranty.asp)	5 Year Enhanced Warranty	Contact us (/howtobuy/) for availability and pricing. Contact us (/howtobuy/) for availability and pricing. Contact us (/howtobuy/) for availability and pricing.
SVC-EXTWAR2 (/support/support-warranty.asp)	2 Year Extended Warranty	Contact us (/howtobuy/) for availability and pricing. Contact us (/howtobuy/) for availability and pricing. Contact us (/howtobuy/) for availability and pricing.
SVC-EXTWAR3 (/support/support-warranty.asp)	3 Year Extended Warranty	Contact us (/howtobuy/) for availability and pricing. Contact us (/howtobuy/) for availability and pricing. Contact us (/howtobuy/) for availability and pricing.
SVC-EXTWAR4 (/support/support-warranty.asp)	4 Year Extended Warranty	Contact us (/howtobuy/) for availability and pricing. Contact us (/howtobuy/) for availability and pricing. Contact us (/howtobuy/) for availability and pricing.
SVC-EXTWAR5 (/support/support-warranty.asp)	5 Year Extended Warranty	Contact us (/howtobuy/) for availability and pricing. Contact us (/howtobuy/) for availability and pricing. 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.

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availability
and pricing.

Related Products

Carrier-Class RAS (/products/product_detail.asp?id=276)

Dial-Up Modems (/products/product_detail.asp?id=277)

Enterprise RAS (/products/product_detail.asp?id=274)

ISP RAS (/products/product_detail.asp?id=273)

Miniature RAS (/products/product_detail.asp?id=275)

Backgrounders

FiberPlex Capabilities Guide

(/backgrounders/FiberPlex_Capabilities_Statement.pdf)

October 6, 2017

Certifications

Patton Devices Not Vulnerable to Meltdown and Spectre Side-Channels Attacks

(/certifications/Patton-Meltdown-Spectre-Statement.pdf)

January 4, 2018

Data Sheets

Patton Product Life Cycle Color Codes (/datasheet/Life-Cycle-Availability-Codes.pdf)

April 24, 2015

Model 3120 Datasheet (/datasheet/3120_datasheet.pdf)

November 2, 2012

Model 3120 Datasheet (A4 page size) (/datasheet/3120-A4_datasheet.pdf)

November 2, 2012

Product & Solution Guides

Remote Access Product Guide (/guides/07MRAS-PG_med-res.pdf)

May 18, 2010

Remote Access Solutions Guide (/guides/remote_access_guide_lo-res.pdf)

December 13, 2000

Tech Notes

RAS: IP Filtering (/technotes/ras_ip_filtering.pdf)

July 16, 2002

RAS: Configuring Frame Relay (/technotes/frame_relay.pdf)

May 31, 2002

RAS: Multi-Router Traffic Grapher (MRTG) (/technotes/ras_mrtg.pdf)

May 30, 2002

RAS: Non-Facility Associated Signalling (NFAS) (/technotes/nfas.pdf)

May 16, 2002

RAS: Working with SNMP Object Identifiers (OIDs) (/technotes/ras_oids.pdf)

May 13, 2002

SNMP Security Advisory (/technotes/Patton-Security-Advisory.pdf)

March 7, 2002

RAS: About RADIUS (/technotes/ras_about_radius.pdf)

January 15, 2002

RAS: Configuring RADIUS (/technotes/ras_configuring_radius.pdf)

January 15, 2002

Build An ISP (/technotes/build_yourself_an_ISP.pdf)

December 30, 1999

2800 Hotel Remote Access Application and FAQ's

July 21, 1999

(/technotes/2800_Hotel_Application_FAQ.pdf)

Pointers to Radius Server Implementations (/technotes/radius.pdf)

March 31, 1999

User Manuals & Configuration Guides

BroadSoft Configuration Guide for SmartNode SmartWare

(/manuals/BroadSoft_PartnerConfigGuide_Patton_SmartNode.pdf)

Model 3120 RAS Administrator's Reference Guide (/manuals/3120_arg.pdf)

Model 3120 RAS Getting Started Guide (/manuals/07MD3120-GS.pdf)

December 2, 2013

February 20, 2004

April 29, 2003

White Papers & Success Stories

V.92 Overview & Business Model White Paper (/whitepapers/v92.pdf)

I love my RAS because... (/whitepapers/I_love_my_ras.pdf)

Grupo Televisa uses Model 2800 RAS (/whitepapers/televisa.pdf)

August 22, 2008

September 29, 1999

March 1, 1999

Software Upgrades

Model 2960-2996-3120 (Including Models 2996, 3120) (/support/upgrades/index.asp?um=2960-2996-3120)

Company (/company/)

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> Partner Programs (/partners/)

> Resources (/resources/)

> Blog (https://blog.patton.com)

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> VoIP Gateways (/voip-gateway/#products)

> VoIP Routers (/voip-router/#products)

> VoIP IADs (/voip-iad/#products)

> SIP eSBCs (/session-border-controller/#products)

> VoIP Appliances (/ip-pbx/#products)

> SS7 Media Gateways (/ss7-gateway/#products)

Software and Cloud

> Virtual SBC (/virtual-sbc/#products)

> Virtual Access Router (/virtual-access-router/#products)

> VPN Server (/vpn-server/#products)

> IPv6 to IPv4 Network Gateway (/network-

Connectivity

> Line Drivers / Short Range Modems

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> Fiber Serial DataCom (RS-232/422/530/188C) (/products/network-connectivity/#27)

> Ethernet Over Fiber (/products/network-connectivity/#23)

> Multiplexers & Sharing Devices (/products/network-connectivity/#12)

> Fiber Telecom (T1/E1/PRI, Analog and ISDN)

(/products/network-connectivity/#28)

> Pro AV Live and Media Broadcast

gateway/#products)	Fiber Systems
> Intelligent Edge	(/products/network-connectivity/#29)
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orchestration/#products)	and Kits
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(/ethernet-	and Control
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(/poe/#products)	> Other Network
> xDSL Products	Extenders
(/xdsl/#products)	(/products/network-
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	> Surge Protectors &
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	Converters
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	> Fiber Repeaters
	and Wavelength

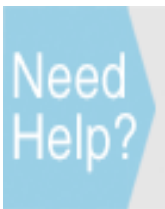
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