

Products (/products/) > SmartLink 4020 Series VoIP Router

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The SmartLink 4020 VoIP SoHo Router connects your LAN, standard analog phones, and fax to any IP network. This full featured IP router includes support for PPPoE and Quality of Service for converged low-cost sales-office/telecommuter voice data communications.

Overview

The SmartLink VoIP SoHo Router provides transparent connectivity for analog phones and faxes to the world of Internet voice. Connecting to any analog phone, fax or PBX, the SmartLink product is an effective and flexible solution for small offices and telecommuters to access Internet-based telephone services and corporate intranet systems across established LAN and Internet connections like xDSL and cable modems.

The SmartLink Model 4021 provides two RJ-45 Ethernet ports and one FXS (RJ-11) analog phone port. The SmartLink Model 4022 provides two RJ-45 Ethernet ports and two FXS (RJ-11) analog phone ports. Front panel LEDs quickly show at-a-glance the status of the system, LAN, WAN, and phone ports. A full suite of IP features (DHCP,

Features

- **Two FXS Connections**—Up to 2 FXS ports connect to a standard phone or PBX.
- **QoS Guaranteed**—Quality of Service ensures voice traffic gets priority without shutting down your Ethernet LAN.
- **Firewall, NAT, DHCP, PPPoE**—Connect to any broadband access provider, serve the whole network, and secure your data. User configurable IP services ensure every host is connected to the LAN.
- **SIP Signaling**—Deploy into any multimedia, interactive, or softswitch network with the leading call and session signaling protocols.
- **Toll Quality CODECs & T.38 Fax**—Wall-mount ready and an optional DIN rail mounting kit is available.
- **Centralized Management**—HTTP/SNMP manageable from any location. (View Demo

NAT/PAT, and NTP) are available to LAN devices attached downstream. VLAN tagging and prioritization enables voice traffic to be handled before data traffic. Support for PPPoE simplifies extending corporate intranet services to remote telecommuters.

(<https://www.patton.com/sip/ui>)

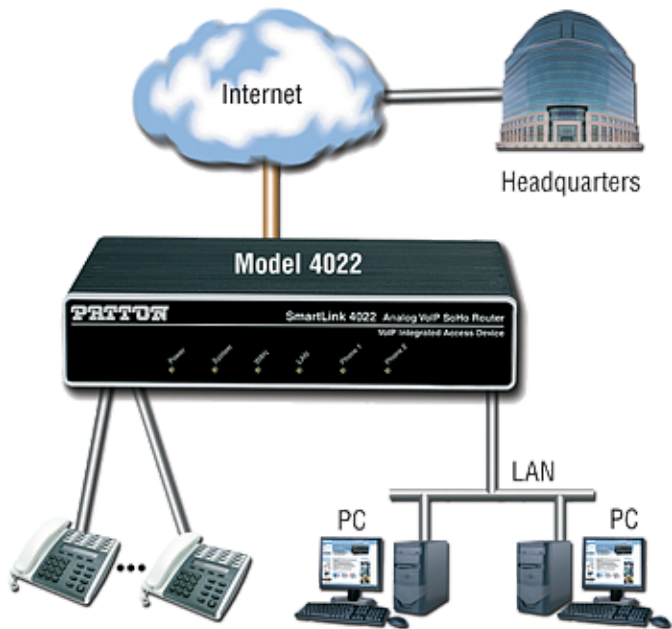
The web interface offers two levels of configuration access for the network operator and end user. The friendly web interface and product labeling (Phone, LAN, WAN etc.) to help ensure a trouble-free installation for the end user. Configuration and firmware can be downloaded from a TFTP server.

The SmartLink is SIP standard compliant, so it can be used with most SIP-based telephony services. Analog phones attached to the SmartLink can use such advanced voice calling features as call forwarding, caller ID, 3-way calling, call holding, call retrieval and call transfer.

Applications

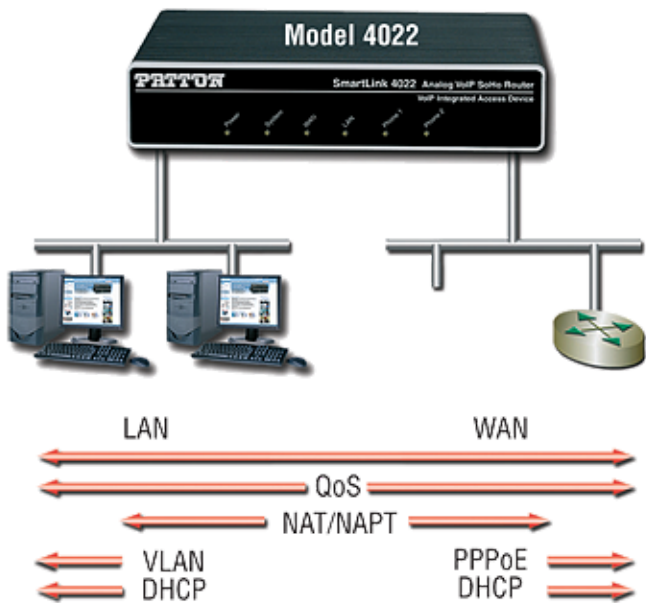
VoIP Integration

Using Patton's SmartLink VoIP SoHo routers with FXS supports seamless access to Internet telephony and data.



LAN/WAN QoS & Router



As a premise router, the SmartLink offers voice and complete Internet access. With dual 10/100 Ethernet ports, the SmartLink connects hosts to your LAN with VLAN tagging, DHCP server/client, and Firewall/ACL services. Use PPPoE and bring your voice and data to the WAN through a single and secure network connection.



Specifications

Voice Connectivity	2-wire loopstart, RJ-11/12 • short haul loop 1.1 km @3REN • Caller-ID Type-1/2 FSK & ITU V.23/Bell 202 generation
Voice Processing (signalling dependent)	SIP • MGCP (Packet Cable NCS 1.0 & IETF MGCP 1.0) • Voice CODECs (G.711 A-Law/μ-Law (64 kbps); G.726 (ADPCM 40, 32, 24, 16 kbps); G.723.1 (5.3 or 6.3 kbps); G.729ab (8 kbps)) • G.168 echo cancellation • 4 parallel voice connections • DTMF detection & generation • carrier tone detection & generation • silence suppression & comfort noise • configurable dejitter buffer • DTFM in-band & out-of-band • configurable transmit packet length • RTP/RTCP (RFC 1889)
Voice Services/Features	Call forwarding • Call transfer • Call hold • Call waiting • 3-way calling
IP Services	IPv4 router; RIPv1, v2 (RFC 1058 & 2453) • IP filtering • NAPT • NTP • DHCP client & server • PPPoE • Programmable static routes • ICMP redirect (RFC 792); Packet fragmentation • DiffServe/ToS set or queue per header bits • VLAN support 802.1p/q • AES/DES/3DES encryption
Fax and Modem Support	G.711 transparent fax & T.38 fax relay (9.6 k, 14.4 k)
Connectivity	2 10/100 Full Duplex/Autosensing Ethernet RJ-45
Management	Browser configuration interface • TFTP configuration & firmware loading • SNMP v2 agent
Power	100–240 VAC (50/60 Hz)
Temperature	0 to 40°C (32 to 104°F)
Humidity	Humidity: 5 to 80% (non condensing)
Compliance	Compliance: EMC compliance: EN55022 & EN55024 • Safety compliance: EN 50950 • CE compliance • FCC Part 15 Class B

Ordering

#	Model #	Description	Availability
1	SL4021/EUI	SmartLink 1 FXS VoIP GW-Router, 2x 10/100bTX, External UI Power.  Accessories	Special Order
2	SL4022/EUI	SmartLink 2 FXS VoIP GW-Router, 2x 10/100bTX, External UI Power.  Accessories	General Availability

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.

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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.

SmartNode™ Awards

- **2016 COMMUNICATIONS SOLUTIONS Product of Year** (/company/newsrelease.asp?id=2770): SmartNode 5540 Series FXS eSBC-IAD (/products/product_detail.asp?id=541)
- **2015 INTERNET TELEPHONY Excellence Award** (/company/newsrelease.asp?id=2684): Patton Element Management System (/products/product_detail.asp?id=495)
- **2015 COMMUNICATIONS SOLUTIONS Product of Year** (/company/newsrelease.asp?id=2673): SmartNode 5300 eSBC (/products/product_detail.asp?id=502)
- **2015 INTERNET TELEPHONY Product of the Year** (/company/newsrelease.asp?id=2612): SmartNode Open Gateway Appliance (SNOGA) (/products/product_detail.asp?id=512)
- **2013 Unified Communications Excellence Award** (/company/newsrelease.asp?id=2555): SmartNode 4940 VoIP Gateway (/products/product_detail.asp?id=437)
- **2012 Internet Telephony Product of the Year** (/company/newsrelease.asp?id=2376): SmartNode 4670 Hybrid VoIP IAD (/products/product_detail.asp?id=458)
- **2012 Internet Telephony Excellence Award** (/company/newsrelease.asp?id=2341): VoIP Gateways & Routers (/products/product_detail.asp?id=5)
- **2011 Internet Telephony Product of the Year** (/company/newsrelease.asp?id=2047): SmartNode 5400 eSBC (/products/product_detail.asp?id=417)

- **2010 Internet Telephony Product of the Year** (</company/newsrelease.asp?id=1938>): SmartNode 5400 eSBC (/products/product_detail.asp?id=417)
- **2009 Internet Telephony Product of the Year** (</company/newsrelease.asp?id=1804>): SmartNode 4400 IpChannelBank Analog VoIP Router (/products/product_detail.asp?id=406)
- **2009 Internet Telephony Excellence Award** (</company/newsrelease.asp?id=1736>): SmartNode 4630 BRI So Digital VoIP Router (/products/product_detail.asp?id=329)
- **2008 Internet Telephony Product of the Year** (</company/newsrelease.asp?id=1453>): SmartNode 4960 eSBC (/products/product_detail.asp?id=354)
- **2007 Unified Communications Product of the Year** (</company/newsrelease.asp?id=1268>): SmartNode 4650 Digital G.SHDSL VoIP IAD (/products/product_detail.asp?id=358)
- **2007 Internet Telephony Product of the Year** (</company/newsrelease.asp?id=1148>): Model S-DTA (/products/product_detail.asp?id=359)
- **2007 Internet Telephony Excellence Award** (</company/newsrelease.asp?id=1082>): Model 4562 (/products/product_detail.asp?id=353)
- **2006 Internet Telephony Product of the Year** (</company/newsrelease.asp?id=996>): SmartNode 4960 eSBC (/products/product_detail.asp?id=354)
- **2005 Internet Telephony Product of the Year** (</company/newsrelease.asp?id=850>): SmartNode 4630 BRI So Digital VoIP Router (/products/product_detail.asp?id=329)

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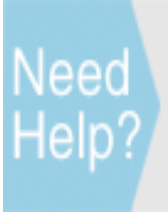
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