



NETLINK TELEPHONY GATEWAY

WIRELESS IP TELEPHONY GATEWAY FOR LEGACY PBXs

BENEFITS

- Digital integration with legacy telephone systems
- Full feature access on NetLink Wireless Telephones
- Supports display features such as caller ID and message waiting indication
- Scalable architecture for up to 640 users
- Future-proof solution compatible with IP telephony applications

THE WIRELESS CONVERGENCE SOLUTION

NetLink Wireless Telephones are the industry's most advanced solution for voice communication over wireless LANs. By integrating the system with an enterprise wireless network, telephone users are provided with high-quality mobile voice communication throughout the workplace.

In order to provide the highest level of functionality to the NetLink Wireless Telephones, SpectraLink has developed digital interfaces to the leading enterprise telephone systems. SpectraLink's exclusive LinkPlus™ digital interface technology emulates proprietary digital telephone sets, making advanced switch features such as multiple line appearances and display features, available to NetLink Wireless Telephone users.

NETLINK TELEPHONY GATEWAY

The NetLink Telephony Gateway provides the interface between an enterprise PBX and a wireless LAN network. Supporting digital and/or analog line interfaces, the NetLink Telephony Gateway provides the voice encoding and packetization required to transmit telephone conversations over an IP network. With LinkPlus technology, the NetLink Telephony Gateway provides the necessary control signaling to the host PBX allowing NetLink Wireless Telephone users to access all the features and capabilities of the PBX. The NetLink Telephony Gateway also supports H.323-compliant clients, allowing third-party wireless devices to make and receive calls through the host telephone switch.



NetLink Telephony Gateways are designed to integrate with the existing enterprise PBX. All of the provisioning, maintenance, and administration functions of the host PBX are used for the NetLink Wireless Telephones. Each Telephony Gateway supports 16 users, and up to 40 NetLink Telephony Gateways can be deployed in a single network supporting up to 640 NetLink Wireless Telephone users.

FEATURES

NetLink Wireless Telephones are designed for the enterprise networks of today and tomorrow. For traditional PBX systems, NetLink Telephony Gateways provide packetized voice over a wireless LAN without sacrificing digital telephone features and capabilities. To ensure excellent voice quality, SpectraLink has developed a voice prioritization mechanism for 802.11 access points and Wireless Telephones. SpectraLink Voice Priority (SVP) is standards-compatible, simple to implement, and reduces packet queuing delays for voice traffic.



NETLINK TELEPHONY GATEWAY

SPECIFICATIONS

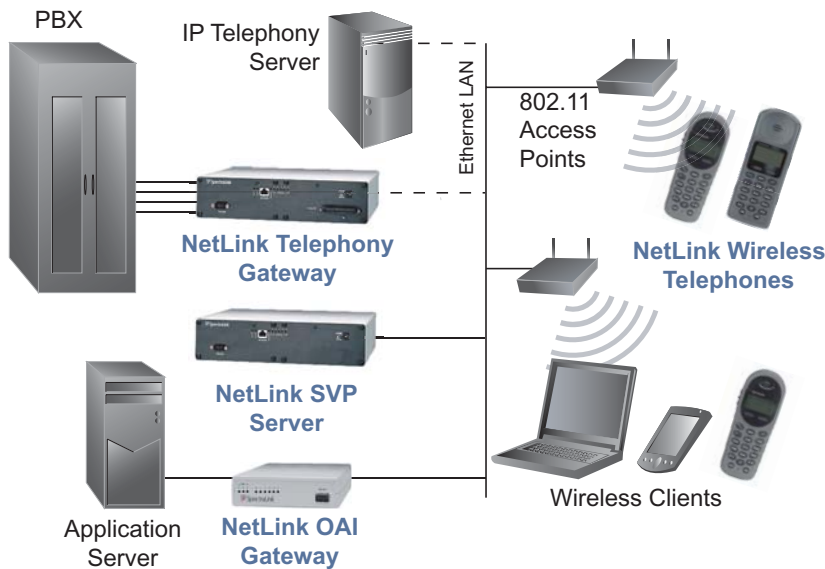
System capacity:	640 Wireless Telephones; 120 simultaneous calls
Telephone switch connection:	RJ-21 25-pair connector
LAN connection:	RJ-45 10Base-T Ethernet
Administration:	serial port, Telnet, external modem
Network configuration:	DHCP or static IP addressing
Dimensions:	6.9" D x 2.8" H x 13.0" W (17.5 cm D x 7.1 cm H x 33 cm W)
Weight:	4.5 lbs (2.0 kg)
Mounting:	wall or 19" rack mount option
Power:	110 - 220 VAC, 50 - 60 Hz
Humidity:	0 - 95%, non-condensing
Temperature:	32° - 104° F (0° - 40° C)

SUPPORTED TELEPHONE SWITCH INTERFACES

Analog	Avaya	Comdial	Executone	Fujitsu	Inter-Tel
Mitel	NEC	Nortel	Panasonic	Siemens	Toshiba

For a complete list of supported interfaces, please visit: www.spectralink.com/products/nlink-interfaces.html

NETLINK WIRELESS TELEPHONE SYSTEM ARCHITECTURE



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Telephone Switch Interface Matrix

NetLink Wireless Telephones
Link Wireless Telephone System

Part Number: 72-0070-10
Issue P



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SpectraLink Voice Priority
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Telephone Switch Interfaces

Switch Vendor	Switch Supported	Link 150 M3 Part Numbers	Link 3000 Part Numbers	NetLink Part Numbers	Telephone Set Emulated	Port Card Required	Software Release Required
Any	Any PBX, some KSUs	SCA5xx	CPA316	TGA116	Analog (aka '2500 type', 'Industry Standard Telephone' or 'Tip-Ring' set)	Analog port card (some KSUs require analog telephone adapters or interface units)	N/A
Avaya	Definity G3 ¹ (2-wire)	SCD5xx,	CPD316	TGD116	8410D Digital Voice Terminal	TN2181, TN2224, TN2224B, TN2224CP, TN2214B, TN2214CP	G3V2 or later
	Definity G1, G2, G3 (4-wire)	SCF5xx	CPF316	TGF116		TN754 v11 or higher, TN754B v11 or higher	R3 ² or later
	Merlin Legend ³ Merlin Magix (4-wire)	SCF5xx	CPF316	TGF116	MLX-16DP	408 GS/LS MLX Module or 008 MLX Module	Any
	Avaya S8700/S8500 S8300/S8100 with G700/G600 Media Gateway Interface	SCD5xx	CPD316	TGD116	8410D Digital Voice Terminal	MM712/MM717 DCP Media Module	
Comdial	DX, DXP	SCD5xx	CPD316	TGD116	8012S Impact Speakerphone	DXDST-8, DXDST-16	Any
	FX, FX II					FXLDS-16, FXSDS-16	(14A or later)
	DSU II					DXDST-8, DXDST-16	Any
Executone	IDS	SCB5xx	CPB316	TGB116	Model 32	LSI II - 15750 or 15740-1	Any
Fujitsu	F9600	SCD5xx	CPD316	TGD116	DT14DS	B16DLA, B16DLC, B16DLE	Any
Inter-Tel	Axxess, Axxent	SCD5xx	CPD316	TGD116	Standard Digital Keypad	Digital Keypad Card (DKSC, DKSC-16)	4.4 or later
	Eclipse				Associate		5.2xx or later
Mitel	SX-50, SX-200	SCX516	CPM316	TGX116	Superset 420	Digital / DNIC Line Card or Module	Any
	SX-2000					DNIC Line Card	
	3300 ICP					DNIC Line Card	
NEC	NEAX 2000	SCD5xx	CPD316	TGD116	Dterm Series III or E (ETJ-16DC-2)	4DLCA, 4DLCD, 4DLCQ	1600 or later
	NEAX 2000 IVS					8DLCP	D1-4.01
	NEAX 2400					16ELCH, 16ELCJ	5200 or later

¹ Includes Definity One, BCS, ECS, Prologix, and Guestworks platforms

² Releases earlier than R3 require the port be programmed as a 74xx type set. Menu functions will not be supported

³ Merlin II may be easily upgraded to Merlin Legend. The customer should contact his or her telecom supplier

Telephone Switch Interfaces (con't.)

Switch Vendor	Switch Supported	Link 150 M3 Part Numbers	Link 3000 Part Numbers	NetLink Part Numbers	Telephone Set Emulated	Port Card Required	Software Release Required
Nortel	Meridian 1 (incl. Remote Shelf)	SCN5xx	CPN316	TGN116	M2616 Modular Telephone w/ display	NT8D02EA, NT8D02EB, NT8D02GA	X11 rel. 14 ⁴ or later
	Option 11C Mini					NTDK16	Version 25.1 or later
	SL-1					QPC578	X11 rel. 14 or later
	SL-100 with IPE ⁵ shelf	NT8D02EA, NT8D02EB, NT8D02GA					
	Norstar Modular ICS	SCD5xx	CPD316	TGD116	M7310 Telephone	(only one type)	DR1-DR5
	Norstar Compact ICS 616, 824						Any
	Norstar BCM (Digital)						DSM 16, DSM 32
Panasonic	DBS & DBS 576	SCP5xx	CPP316	TGP116	VB-44223	DEC/8	Any
Siemens /Rolm	8000 CBX; 9000 CBX	SCD5xx	CPD316	TGD116	RolmPhone 400	Rolm Phone Interface (RPI)	Any
	9751 CBX Models 10 - 70					RPI	9005 or earlier
	9751 CBX Models 30 & 80, 9200 CBX, HiCom 300E					SLMR, SLMR-16, SLMR3	9006
	Hicom 150/ HiPath 3000	SCH516 ⁶	CPH316 ⁶	LKO: TGH116 ⁶	optiset E Basic	SLM024, SLU8	Any
	Hicom 300/ HiPath 4000				optiset E Standard	SLM0	Any
Toshiba	Strata DK280, DK24, DK96, DK424, CTX 100, CTX 670	SCD5xx	CPD316	TGD116	2020SD Digital Telephone	PDKU, PDKU2, PDKU2A, BDKU/S, ADKU, BWDKU ⁷	Any

⁴ Earliest version of software that supports the emulated telephone set

⁵ Intelligent Peripheral Expansion shelf must be installed to operate an M2616 port on an SL-100

⁶ SCH516, CPH316 and LKO:TGH116 are available through Siemens and Siemens authorized distributors. The wireless telephone product names for the NetLink system are the Siemens optiPoint W1/WL1 professional telephones.

⁷ Toshiba BWDKU card is supported in version 53.028 or higher of the Link 150 MCU and in version 43.085 and higher on the Link 3000 MCU. It is supported on the NetLink Telephony Gateway version .082 and higher.

IP Telephony Interfaces

Switch Vendor	Switch Supported	Wireless Telephone Product Numbers	Telephone Set Emulated	Software Release Required
Alcatel ¹	OmniPCX OXE	Mobile IP Touch 300, 600	N/A	603.3L and above
Avaya ²	Communication Manager, IP Office	3616, 3626 IP Wireless Telephone	4612 IP Telephone	MultiVantage (any)
Cisco Systems	CallManager	PTE110, PTX110	IP Phone 7960	3.x, 4.1
	CallManager Express			3.2
	CallManager	PTB7xx, PTB8xx	IP Phone 12SP+	3.1, 3.2
H.323 Gateways	Vertical Networks InstantOffice	PTE150, PTN150, PTX150	N/A	H.323 v2 compatible
Inter-Tel ³	Axxess	Model 8664, 8665, 8668 Wireless IP Phone	Model 8660	8.2
MGCP Call Agents	SBC Hosted IP Communication Service (HIPCS)	PTE/N/X150, PTE/N/X150S – without G.729 PTE/N/X160, PTE/N/X160S – with G.729	Use SpectraLink e340/h340 or i640 template	Sylantro version 3.2
Mitel Networks	3300 ICP (any controller) ⁴	PTE140, PTN140, PTX140	SpectraLink NetLink 5220 IP Phone	5.1 and above 4.1.9.4 to 5.0
	SX-200 ICP (any controller) ⁴	PTE140, PTN140, PTX140	SpectraLink NetLink	2.1 and above
NEC	IPS 2000	MH110, MH120	16LD	RLS16
	IPS 2400	MH110, MH120	16LD	RLS8 H1 7.98
Nortel Networks ⁵	Meridian 1, Succession 1000	WLAN Handset 2210, 2211	i2004 Internet Telephone	Succession 3.0 Succession 4.0

¹ Available only through Alcatel and Alcatel authorized distributors

² Available only through Avaya and Avaya authorized distributors

³ Available only through Inter-Tel and Inter-Tel authorized distributors

⁴ Supported Mitel platforms: 3300 LX, 3300 MX, 3300 CX, 3300 CXi, SX-200 ICP, SX-200 MX, Sprint i4.

⁵ Available only through Nortel Networks and Nortel Networks authorized distributors

The information provided in these tables is believed to be current and correct but is not guaranteed. Verification with an appropriate demo kit is recommended.

