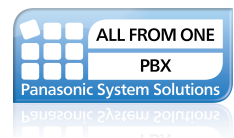# PRODUCT GUIDE AND SPECIFICATIONS
NS1000

The Panasonic KX-NS1000 is a SIP based Unified Communications and Collaboration server, designed to improve customers' business efficiency through Voice over IP and wireless technologies.

IP networking and SIP are fully supported, while maintaining backwards compatibility with traditional ISDN trunking to ensure flexibility.

- Expandable Voice Over IP communications server
- "One Look" networking features for fully transparent multi-site systems
- Easy install, easy maintenance, easy to use
- Optimised for 30 – 250 users, expandable to 1000 network users
- Tight integration with a number of powerful CTI applications

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ALL FROM ONE
PBX
Panasonic System Solutions

NS1000

NS-1000

SYSTEM CAPACITY		Standalone maximum	One-Look Networking maximum
Trunks (Ch)		256	600
IP Trunks		256	256
	SIP Trunks	256	256
	H.323	48	96
Legacy Trunks		30	480
LCOT		2	32
ISDN BRI		8	128
ISDN PRI30		30	480
Extensions		640	1000
IP extensions		640	1000
	SIP Phones	640	1000
	IP PT	128	1000
Legacy phones		2	32
	SLT	2	32
	DPT	0	0
Dect Cell Stations		64	128
DPT-CS		0	0
IP Cell Stations		64 (16x4 Air sync groups)	128
DECT handsets		512	512
Voicemail		24 channels	24 x 16 channels
Built-in VM		24 channels	24 x 16 channels

NETWORK SERVICES	
HTTP Server	
FTP server / client	For system auto-update
DNS server	For MNT port
DNS client	
DHCP Server / client	
NTP server	For UT series SIP terminals
NTP client	
SMTP	
IMAP server	
Telnet	
SNMP ver 1/2c	
Syslog client	

MAIN UNIT FEATURES

		Feature	Notes
LED Indicators	**STATUS**	Run, Alarm	3 colour (green, amber, red)
	BATTERY ALARM	Backup battery low indicator	Red
	MASTER	Network master/slave	3 colour (green, amber, red)
System mode switch	System initialise / normal	¨Initialise mode¨ or ¨normal mode¨ switching	Slide switch
USB port	**USB**	UPS Power alarm input	Type A
IP Ports (Ethernet)	**MNT**	Maintenance port	RJ45
	LAN	LAN interface	RJ45
	WAN	Reserved	RJ45
Music on hold / EPG ports	**MOH**	External music source port	
	EPG	External Paging port	
DPH port	**Door phone**	Door Phone / opener port	
Add in card slot 1			Refer to option cards table
Serial Port	**RS-232C**	RS-232C interface	DSub 9pin (at rear)
AC Switch		AC Power on/off	Primary line switch
AC In		AC Power inlet	At rear
Ground		Power ground terminal	

MAIN UNIT OPTION CARDS

Model	**Name**	Description	Notes
KX-NS0110	**VoIP DSP card (Small)**	Expansion unit for CODEC resource. System requires at least one DSP	Max 2 units
KX-NS0111	**VoIP DSP card (Med)**		
KX-NS0112	**VoIP DSP card (Large)**		
KX-NS0135	**Storage memory (Small)**	Voice mail recording, 200 hours	Max 1 unit
KX-NS0136	**Storage memory (Medium)**	Voice mail recording, 450 hours	
KX-NS0137	**Storage memory (Large)**	Voice mail recording, 1000 hours	
KX-NS0106	**Fax interface card**	Super G3 fax server	Max 1 unit
KX-NS0161	**Doorphone interface card**	Doorphone Interface Sensor Interface Door Opener relay	Max 1 unit

TRUNK AND LINE CARDS

Model	Name	Description	Notes
KX-NS0180	2 port analogue trunk / 2 port SLT card	Support extension caller ID Power Failure Transfer port LCOT (RJ45 x 2), SLC (RJ45 x 1)	Max 1 unit
KX-NS0280	4 port BRI / 2 port SLT card	4 ports BRI (8 channels) Supports extension caller ID S/T point is switchable (4 ports) BRI4 (RJ45 x 4), SLC (RJ45 x 1)	
KX-NS0290	PRI30 / 2 port SLT card	PRI30 interface (1 port) Supports extension caller ID PRI (RJ45 x 1), SLC (RJ45 x 1)	

UNIFIED MESSAGING AND VOICEMAIL

Number of Ports	Default: 2 channels, Max: 24 channels	Activation keys available for expansion
Recording Time	Default: 2 hours, Upgrade to 15 hours via activation key	Optional storage memory (SM) available for expansion
Number of Mailboxes	1024	
Maximum message length	1 – 60 mins (programmable), Unlimited for 2 way recording	
Personal Greeting Length	Default: 60s, Max: 360s	Programmable
Custom Service	Up to 200	
File Format (recording voice)	G.711	
Fax Server	Optional Fax Server card – 1 ch	

SUPPORTED TELEPHONE TERMINALS

	Models	Description
IP-PT	NT300 series, NT265	IP Proprietary Telephone
IP Conference Phone	NT700	SIP conference Telephone
IP Cell Station	NCP0158	IP CS for DECT handsets
SIP Terminals	KX-UT136, KX-UT133, KX-UT123, KX-UT113	Backlit 6 line display, 24 flexible keys/ Backlit 3 line display, 24 flexible keys/ 3 line display, 2 ethernet ports/ 3 line display, 1 ethernet port

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