



System Capacity

Maximum Trunks

The KX-NS1000 supports the following number of trunks.

Type	KX-NS1000 Stand-alone System	KX-NS1000 with 1 Legacy Gateway				
		KX-NCP500/1000	KX-TDE100, KX-TDA100	KX-TDA100D	KX-TDE200, KX-TDA200	KX-TDE600/620, KX-TDA600/620
Total Number of Trunks	256	256	256	256	256	256
H.323	48 / 48 / 96 ^{*1}	48 / 48 / 96 ^{*1}	48 / 48 / 96 ^{*1}	48 / 48 / 96 ^{*1}	48 / 48 / 96 ^{*1}	48 / 48 / 96 ^{*1}
SIP ²	256 / 256 / 160 ^{*1}	256 / 256 / 160 ^{*1}	256 / 256 / 160 ^{*1}	256 / 256 / 160 ^{*1}	256 / 256 / 160 ^{*1}	256 / 256 / 160 ^{*1}
BRI	8	12 / 16 ^{*3}	96	112	128	160
PRI23 ³	23	46	92	92	92	115
PRI30 ²	30	60	120	120	120	150
T1	-	48	96	96	96	120
E1 ²	-	60	120	120	120	150
Analogue	2	12 / 16 ^{*3}	96	112	128	160

Type	KX-NS1000 with 2 Legacy Gateway					KX-NS Series One-look Networking ^{*4}
	KX-NCP500/1000	KX-TDE100, KX-TDA100	KX-TDA100D	KX-TDE200, KX-TDA200	KX-TDE600/620, KX-TDA600/620	
Total Number of Trunks	256	256	256	256	256	600
H.323	48 / 48 / 96 ^{*1}	48 / 48 / 96 ^{*1}	48 / 48 / 96 ^{*1}	48 / 48 / 96 ^{*1}	48 / 48 / 96 ^{*1}	96 / 96 / 128 ^{*1}
SIP ²	256 / 256 / 160 ^{*1}	256 / 256 / 160 ^{*1}	256 / 256 / 160 ^{*1}	256 / 256 / 160 ^{*1}	256 / 256 / 160 ^{*1}	256
BRI	24 / 32 ^{*3}	192	224	256	256	600
PRI23 ³	92	184	184	184	230	600
PRI30 ²	120	240	240	240	256	600
T1	96	192	192	192	240	600
E1 ²	120	240	240	240	256	600
Analogue	24 / 32 ^{*3}	192	224	256	256	600

Maximum Terminal Equipment

The KX-NS1000 supports the following number of terminal equipment.

Type	KX-NS1000 Stand-alone System	KX-NS1000 with 1 Legacy Gateway				
		KX-NCP500/1000	KX-TDE100, KX-TDA100	KX-TDA100D	KX-TDE200, KX-TDA200	KX-TDE600/620, KX-TDA600/620
Extensions	640	640	640	640	640	640
SLT	2	36	128	128	168	240
KX-DTS500/KX-T7600 Series DPT (DXDP ²)	-	36 (40)	96 (128)	104	128 (256)	160 (320)
Other DPT	-	10	32	-	128	128
APT	-	4	24	-	64	80
IP-PT	256 / 640 / 256 ^{*1}	256 / 640 / 256 ^{*1}	256 / 640 / 256 ^{*1}	256 / 640 / 256 ^{*1}	256 / 640 / 256 ^{*1}	256 / 640 / 256 ^{*1}
IP Phone	640 / 256 / 384 ^{*1}	640 / 256 / 384 ^{*1}	640 / 256 / 384 ^{*1}	640 / 256 / 384 ^{*1}	640 / 256 / 384 ^{*1}	640 / 256 / 384 ^{*1}
IP Phone	640 / 256 / 384 ^{*1}	640 / 256 / 384 ^{*1}	640 / 256 / 384 ^{*1}	640 / 256 / 384 ^{*1}	640 / 256 / 384 ^{*1}	640 / 256 / 384 ^{*1}
S-PS	255	255	255	255	255	255
DSS Console	-	8	8	8	8	64
CS	64	64	64	64	64	64
DPT-CS (2 ch)	-	11	32	26	32	32
DPT-CS (8 ch)	-	5	16	13	16	16
IP-CS	64	64	64	64	64	64
SIP-CS	64	64	64	64	64	64
PS	512	512	512	512	512	512
Built-in UM (ch)	30	30	30	30	30	30
TVM Unit	-	2	2	2	2	2
Doorphone	1	17	17	17	17	17
Door Opener	-	17	17	17	17	17
External Relay	1 ^{*5}	17	17	17	17	17
External Sensor	1	17	17	17	17	17

Type	KX-NS1000 with 2 Legacy Gateway					KX-NS Series One-look Networking ^{*4}
	KX-NCP500/1000	KX-TDE100, KX-TDA100	KX-TDA100D	KX-TDE200, KX-TDA200	KX-TDE600/620, KX-TDA600/620	
Extensions	640	640	640	640	640	1000
SLT	72	256	256	336	480	1000
KX-DTS500/KX-T7600 Series DPT (DXDP ²)	72 (80)	192 (256)	208	256	320 (640)	512 (1000)
Other DPT	20	64	-	256	256	512
APT	8	48	-	128	160	336
IP-PT	256 / 640 / 256 ^{*1}	256 / 640 / 256 ^{*1}	256 / 640 / 256 ^{*1}	256 / 640 / 256 ^{*1}	256 / 640 / 256 ^{*1}	1000
IP Phone	640 / 256 / 384 ^{*1}	640 / 256 / 384 ^{*1}	640 / 256 / 384 ^{*1}	640 / 256 / 384 ^{*1}	640 / 256 / 384 ^{*1}	1000
IP Phone	640 / 256 / 384 ^{*1}	640 / 256 / 384 ^{*1}	640 / 256 / 384 ^{*1}	640 / 256 / 384 ^{*1}	640 / 256 / 384 ^{*1}	1000
S-PS	255	255	255	255	255	255
DSS Console	16	16	16	16	64	64
CS	64	64	64	64	64	128
DPT-CS (2 ch)	22	64	52	64	64	128
DPT-CS (8 ch)	10	32	26	32	32	64
IP-CS	64	64	64	64	64	128
SIP-CS	64	64	64	64	64	128
PS	512	512	512	512	512	512
Built-in UM (ch)	30	30	30	30	30	30
TVM Unit	4	4	4	4	4	8
Doorphone	33	33	33	33	33	80
Door Opener	33	33	33	33	33	80
External Relay	33	33	33	33	33	80
External Sensor	33	33	33	33	33	80

*1 Standard Type / IP-Extension Type / System resources Type

*2 When using the trunk adapter KX-NS8188 / KX-NS8290, the total number including SIP, PRI, and E1 is 256 ch.

*3 KX-NCP500 / KX-NCP1000

*4 When connected to Legacy Gateway

*5 When Digital MDP is used.

*6 The total number of Door Openers and External Relays.

Specifications

KX-NS1000	
Main CPU	650 MHz Dual Core
Power Input	100 V AC to 130 V AC: 0.95 A/200 V AC to 240 V AC: 0.6 A; 50 Hz/60 Hz
Power Consumption (when fully mounted)	50 W (240 V: 132 VA, 200 V: 120 VA, 130 V: 104 VA, 100 V: 95 VA)
External Backup Battery	External battery port is not supported. Support UPS: USB2.0: 1 port (Connector: Type A)
Memory Backup Duration	7 years
Dialling	Trunk
	Extension
Mode Conversion	DP-DTMF, DTMF-DP
Ring Frequency	20 Hz/25 Hz (selectable)
Operating Environment	Temperature: 0 °C to 40 °C Humidity: 10 % to 90 % (non-condensing)
Conference Call Trunk	96 parties (32 x 3-party conference call, 12 x 8-party conference call, etc.)
Music on Hold (MOH)	1 port (Level Control: -31.5 dB to +31.5 dB per 0.5 dB) MOH: Selectable Internal/External Music Source port
External Paging	1 port (Volume Control: -15.5 dB to +15.5 dB per 0.5 dB)
Serial Interface Port	RS-232C: 1 (maximum 115.2 kbps)
RJ45 Port	MNT Port: 1 (for PC connection) LAN Port: 1 (for LAN connection) WAN Port: 1 (for WAN connection)
Extension Connection Cable	SLT: 1-pair wire (T, R)
Air-cooling Method	Fan
Dimension	430 mm (W) x 88 mm (H) x 340 mm (D)
Weight (when fully mounted)	Under 5.1 kg

Option List for KX-NS1000

Activation Keys

Component		Model No.
Networking	One-look Network	KX-NSN001
	QSIG Network	KX-NSN002
	Router Function	KX-NSN101
	16-Channel IP-VPN (IPsec)	KX-NSN216
System Function	Call Centre Feature	ACD report, Announcement of waiting number for queuing
		Announcement of waiting number for queuing
	Report	ACD report
		Enhanced Built-in ACD Report ^{*1}
		Call Statistics Report
	Remote Maintenance	KX-NSF101
VoIP/Unified Message (UM) for KX-NS300	KX-NSF990	
Expansion Capacity for KX-NS700	KX-NSF991	
IP Trunk	IP Trunks (H.323/SIP)	2 ch
		4 ch
		8 ch
		16 ch
IP Telephone ^{*2}	IP Phone Capacity	Up to 50 ch
		Up to 100 ch
		Up to 300 ch
		Up to 640 ch
		51 - 100 ch (Expansion from KX-NSM005)
		101 - 300 ch (Expansion from KX-NSM010)
	IP PTs/IP Phones/ IP Camera/ IP Video Doorphone/ IP Softphones	1 ch
		5 ch
		10 ch
		20 ch
	IP PTs/IP Phones IP Camera/ IP Video Doorphone	1 ch
		5 ch
		10 ch
	3rd Party SIP Phones	20 ch
		1 ch
		5 ch
10 ch		
20 ch		
Cellular Phone Extension	Mobile Extension	1 ch
		5 ch
		10 ch
		20 ch
IP-CS Channel Expansion	Channel Expansion (from 4 to 8 ch)	1 CS
		5 CS
		10 CS
		20 CS
CTI	CSTA Multiplexer	Multiple CSTA connection, FOS interface
	3rd Party CTI link	CTI interface, FOS interface
Unified Messaging System	Feature	
	Recording Time Expansion	KX-NSU001
	Two-way REC (Recording) Control	KX-NSU002
	Message Backup	KX-NSU003
	Unified Messaging Channel	2 ch
		4 ch
	User (Mailbox) Activation Key	
	E-mail (IMAP4) Client/ E-mail Notification	1 user
		5 users
		10 users
20 users		
All users		
Two-way Recording/ Two-way Transfer	1 user	
	5 users	
	10 users	
	20 users	
	All users	
Communication Assistant	User Activation Key	
	CA PRO	1 user
		5 users
		10 users
		40 users
		128 users
	CA Supervisor	1 user
	CA Operator Console	1 user
	CA Network Plug-in	1 user
		5 users
		10 users
		40 users
		128 users
	CA Thin Client	Thin Client Server Connection
Package	Standard (E-mail/Two-way Recording)	1 user
		5 users
		10 users
		20 users
	Advanced (E-mail/Two-way Recording/ Mobile/CA PRO)	1 user
		5 users
		10 users
		20 users
	Mobile (E-mail/Mobile)	1 user
		5 users
10 users		
20 users		

Component		Model No.
Mobile Softphone	1 user	KX-UCMA001
	5 users	KX-UCMA005
	10 users	KX-UCMA010
	25 users	KX-UCMA025
	50 users	KX-UCMA050
UC Pro V2 User AK	5 users	KX-UCPB0005W ^{*4}
	10 users	KX-UCPB0010W ^{*4}
	25 users	KX-UCPB0025W ^{*4}
	50 users	KX-UCPB0050W ^{*4}
	75 users	KX-UCPB0075W ^{*4}
	100 users	KX-UCPB0100W ^{*4}
	250 users	KX-UCPB0250W ^{*4}
UC Pro V2 Line AK	500 users	KX-UCPB0500W ^{*4}
	1000 users	KX-UCPB1000W ^{*4}
	5 lines	KX-UCPM0005W ^{*4}
	10 lines	KX-UCPM0010W ^{*4}
	25 lines	KX-UCPM0025W ^{*4}
	50 lines	KX-UCPM0050W ^{*4}
	75 lines	KX-UCPM0075W ^{*4}
Upgrading from UC Pro	100 lines	KX-UCPM0100W ^{*4}
	250 lines	KX-UCPM0250W ^{*4}
	500 lines	KX-UCPM0500W ^{*4}
	1000 lines	KX-UCPM1000W ^{*4}
	5 users	KX-UCPAB005W ^{*4}
	10 users	KX-UCPAB010W ^{*4}
	25 users	KX-UCPAB025W ^{*4}
	50 users	KX-UCPAB050W ^{*4}
	75 users	KX-UCPAB075W ^{*4}
	100 users	KX-UCPAB100W ^{*4}
250 users	KX-UCPAB250W ^{*4}	
500 users	KX-UCPAB500W ^{*4}	
1000 users	KX-UCPAB1KW ^{*4}	

*1 Requires KX-NSF201 or KX-NSXF022.

*2 IP PTs: KX-NT600/500/300 series IP proprietary phones, IP Phones: KX-HDV and KX-UT series, IP Camera/IP Video Doorphone: KX-NTV series

*3 Preinstalled on system firmware versions 5.0 and later.

*4 Model No. for other than North America.

Hardware

Component		Model No.
DSP	S (63 resources)	KX-NS0110
	M (127 resources)	KX-NS0111
	L (254 resources)	KX-NS0112
Storage Memory	S (VM Recording Time: 200 hours)	KX-NS0135
	M (VM Recording Time: 450 hours)	KX-NS0136
	L (VM Recording Time: 1000 hours)	KX-NS0137
Free Slot	Stacking Master Card for Legacy Gateway	KX-NS0130
	SLC2/LCOT2 (2-Port SLT/2-Port Analogue Trunk)	KX-NS0180
	SLC2/BRI4 (2-Port SLT/4-Port BRI)	KX-NS0280
	SLC2/PRI23 (2-Port SLT/PRI23)	KX-NS0290
	SLC2/PRI30 (2-Port SLT/PRI30)	KX-NS0290CE
FAX	FAX Interface	KX-NS0106
Doorphone	Doorphone/Door Opener/External Sensor Interface	KX-NS0161

Option List for Legacy Gateways

Hardware

Component	Model	Legacy Gateway				
		KX-NCP500/1000	KX-TDE100/200, KX-TDA100/200	KX-TDA100D	KX-TDE600/620, KX-TDA600/620	
Legacy Gateway	Stacking Card for KX-NCP Series	●	–	–	–	
	Stacking Card for KX-TDE/TDA Series	–	●	●	●	
Physical Trunk	4-Port Analogue	●	–	–	–	
	T1	●	–	–	–	
	E1	●	–	–	–	
	2-Port BRI	●	–	–	–	
	PRI	●	–	–	–	
	8-Port Analogue	–	●	●	–	
	16-Port Analogue	–	●	●	–	
	8-Port DID	–	●	●	●	
	4-Port Analogue	–	●	●	–	
	8-Port E & M	–	●	●	●	
	T1	–	●	●	●	
	E1	–	●	●	●	
	4-Port BRI	–	●	●	●	
	8-Port BRI	–	●	●	●	
	PRI23	–	●	●	●	
	PRI30	–	●	●	●	
	8-Port Analogue Trunk with CID	–	–	●	–	
	8-Port Analogue Trunk with CID Daughter	–	–	●	–	
	16-Port Analogue Trunk	–	–	–	●	
	16-Port Analogue Trunk w/o CID	–	–	–	●	
	16-Port Analogue Trunk with CID16	–	–	–	●	
	Physical Extension	4-Port Digital Hybrid Extension	●	–	–	–
		8-Port Digital Extension	●	–	–	–
16-Port Digital Extension		●	–	–	–	
8-Port Single Line Telephone Extension		●	–	–	–	
16-Port Single Line Telephone Extension		●	–	–	–	
4 Cell Station Interface		–	●	●	●	
8 Cell Station Interface		–	●	●	●	
8-Port Digital Hybrid Extension		–	●	–	●	
8-Port Digital Extension		–	●	●	●	
16-Port Digital Extension		–	●	●	●	
8-Port Single Line Telephone Extension		–	●	–	●	
16-Port Single Line Telephone Extension		–	●	–	–	
16-Port Single Line Telephone Extension with Message Lamp		–	●	–	–	
16-Port Single Line Telephone Extension with Caller ID		–	●	–	●	
16-Port Single Line Telephone Extension with Caller ID and Message Lamp		–	● ^{*1}	●	–	
24-Port Single Line Telephone Extension with Caller ID and Message Lamp		–	● ^{*1}	●	–	
16-Port Single Line Telephone Extension		–	–	–	●	
16-Port Single Line Telephone Extension with Message Lamp		–	–	–	●	
24-Port Single Line Telephone Extension with Caller ID		–	–	–	●	
24-Port Single Line Telephone Extension with Caller ID and Message Lamp		–	–	–	● ^{*2}	
Others		Optional 3-Slot Base	●	–	–	–
		4-Port Doorphone	●	●	●	●
		2-Port Doorphone (German Type)	●	●	●	●
	4-Port External Input/Output	●	●	●	●	
	16-Channel Echo Canceller	●	●	●	–	
	Extension Caller ID	–	●	–	●	
	8-Port Caller ID/Pay Tone	–	●	●	●	
	Optional 3-Slot Base	–	●	●	●	
	8-Port Caller ID	–	●	●	●	
	16-Channel Echo Canceller	–	–	–	●	
	PSUs	L-Type Power Supply Unit	–	● ^{*3}	–	●
		M-Type Power Supply Unit	–	●	–	●
		S-Type Power Supply Unit	–	● ^{*4}	–	–

*1 KX-TDE100/200 only.

*2 KX-TDE600/620 only.

*3 KX-TDE200/TDA200 only.

*4 KX-TDE100/TDA100 only.

Compatible Panasonic Equipment

The KX-NS1000 supports the following equipment:

Cell Stations

- DECT 8 Channel IP Cell Station Unit (KX-NCP0158)
- DECT 4 Channel IP Cell Station Unit (KX-NS0154)
- DECT Cell Station Unit (KX-UDS124)

Doorphones

- Doorphone (KX-T30865, KX-T7765)
- IP Video Doorphone (e.g., KX-NTV160)

Telephones

- Panasonic Proprietary Telephones
 - IP proprietary telephones (e.g., KX-NT600 series, KX-NT500 series, KX-NT300 series)
 - IP softphones (e.g., KX-NCS8100)
 - Portable stations (e.g., KX-TCA385, KX-TCA285)
- IP Phones (SIP)
 - KX-HDV series SIP phones (e.g., KX-HDV430, KX-HDV330, KX-HDV230)
 - KX-UT series SIP phones (e.g., KX-UT670, KX-UT248, KX-UT136)
 - SIP Portable Stations (KX-UDT131, KX-UDT121, KX-UDT111)
 - SIP cordless phones (e.g., KX-TGP600)
 - Third party SIP phones (SIP hardphones/SIP softphones)
- Other
 - Single line telephones
 - Communication IP Camera (e.g., KX-NTV150)

Adapters

- E1 Trunk Adapter (KX-NS8188X)
- PRI Adapter (KX-NS8290CE, KX-NS8290X)

If a legacy gateway is connected to a KX-NS1000, the following equipment is also supported.

Cell Stations

DECT

- 2-Channel Cell Station Unit (KX-TDA0141)
- 4-Channel Cell Station Unit (KX-TDA0142)
- 2-Channel Cell Station Unit (KX-TDA0155)
- 4-Channel Cell Station Unit (KX-TDA0156)
- 8-Channel High-density Cell Station Unit (KX-TDA0158)

2.4 GHz CS

- 2-Channel Cell Station Unit (KX-TDA0141)
- 3-Channel Cell Station Unit (KX-TDA0142)
- 2-Channel Cell Station Unit (KX-TDA0151)
- 3-Channel Cell Station Unit (KX-TDA0152)

Telephones

- Panasonic Proprietary Telephones
 - Digital Proprietary Telephone (e.g., KX-DT500 series and KX-T7600 series)
 - Portable Station (e.g., KX-TD7600 series)
 - DSS Console (e.g., KX-DT590)
 - Analogue Proprietary Telephone (e.g., KX-T7700 series)

Voice Processing System

- Voice Processing System (e.g., KX-TVM series)

Incompatible Panasonic Equipment

The following Panasonic proprietary telephones are not available even if a legacy gateway is connected:

- KX-NT136 IP proprietary telephone
- KX-HGT100 SIP telephone
- KX-NT400 IP proprietary telephone
- KX-TDA0300 PC Console
- KX-T7000 series proprietary telephone
- KX-T7200 series proprietary telephone
- KX-T7300 series proprietary telephone

Note

Some models will be exported to limited regions. Please contact our dealer and confirm the availability of specific models in your region.

System Feature Capacity

	Item	Capacity	
System	Absent Message—Extension	1 x 16 characters	
	Absent Message—System	8 x 16 characters	
	Call Park Zone	100	
	Conference	3 – 8 parties per conference 96 parties total per KX-NS1000 PBX 32 parties total per legacy gateway	
	COS	512	
	DID/DDI Table	32 digits, 1,000 entries	
	Extension number	1 – 5 digits	
	Extension Personal Identification Number (PIN)	10 digits, 1 entry/extension	
	Host PBX Access Code	10 digits, 10 entries/trunk group	
	Multiple Subscriber Number (MSN)	10 entries per ISDN-BRI port	
	Number of Characters of Name	20	
	Printing message	8	
	Queuing Time Table	128	
	Ring Tone Pattern Plan	8	
	Simultaneous Programmers (PT Programming)	• 1 manager programmer + 63 personal programmers • 64 personal programmers	
	Simultaneous Programmers (Web Maintenance Console)	• 1 Installer level account	
	SMDR Call Storage	• 32 User and Administrator level accounts	
	Special Carrier Access Code	1,000 calls	
	Tenant	16 digits, 100 entries	
	Time Service Holiday	32 / 128 ¹	
	Verification Code	24	
	Verification Code Personal Identification Number (PIN)	4 digits, 1,000 entries	
	Emergency Call	10 digits, 1,000 entries	
	Dialling	Hot Line	32 digits
Key Pad Protocol Dial (ISDN Service Access)		32 digits	
Personal Speed Dialling		32 digits, 100 entries/extn.	
Quick Dialling		8 digits, 4,000 entries	
Redial		32 digits	
System Speed Dialling		32 digits, 1,000 entries/tenant or 32 digits, 300 entries/tenant ¹	
One-touch Dialling—PT		32 digits, 5,000 entries/system	
One-touch Dialling—PS		32 digits, 1,000 entries/system	
Groups		Conference Group	8 (31 members/group for Conference Group Mode, 31 members/group for Broadcast Mode)
		User Group	256
	Call Pickup Group	96	
	Idle Extension Hunting Group	128 (16 extensions/group)	
	Incoming Call Distribution Group	128 (128 extensions/group)	
	Paging Group	96	
	PS Ring Group	32	
	Trunk Group	96	
	UM Group	1 group per PBX	
	VM (DPT) Group	8 groups x 12 ports (24 channels)	
	VM (DTMF) Group	8 groups x 32 channels	
	P2P Group	256	
	TR/S/Barring	TRS/Barring Level	7
		TRS/Barring Denied Code	16 digits, 100 entries/level
TRS/Barring Exception Code		16 digits, 100 entries/level	
ARS		Routing Plan Table	48 entries
		Leading Number Table	16 digits, 1,000 entries
		Leading Number Exception Table	16 digits, 200 entries
		ARS Carrier	128
		Itemised Billing Code	10 digits
		Authorisation Code for Tenant	16 digits
Authorisation Code for Trunk Group		10 digits	
Call Log and Message Waiting		Outgoing Call Log—PT	100 records/extn. 5,000 records/system
		Outgoing Call Log—PS	100 records/extn. 2,560 records/system
		Incoming Call Log—PT	100 records/extn. 10,000 records/system
		Incoming Call Log—PS + Incoming Call Distribution Group	100 records/extn. or group, Total 5, 120 records/system
		Message Waiting—PS + Incoming Call Distribution Group	640
		Message Waiting—PT + SLT	1,000
Outgoing Message (OGM)		Outgoing Message (OGM)	64
		OGM Total Recording Time	Approx. 64 minutes
Hospitality and Charge Management Features		Billing items for guest rooms	4,000 records/PBX
		Hotel Operator	4
		Charge Rate	7 digits including a decimal
		Charge Denomination	3 currency characters/symbols
		One-look Networking	1 Master unit, 15 Slave units
		Stacking connection (Legacy Gateway)	8 (One-look Networking)
Networking	E1 trunk/PRI adapter	16	
	TIE Line Routing and Modification Table	32 entries	
	Leading Number	3 digits	
	PBX Code	7 digits	
	NDSS: Monitored PBXs	8	
	NDSS: Registered Extensions for Monitor PBX	250	
Unified Messaging	Mailboxes ²	1,022 subscriber mailboxes, 1 System Manager mailbox, 1 Message Manager mailbox	
	Total Recording Time	200h/450h/1000h (CF S/M/L)	
	Maximum Message Length	1 - 60 min (programmable) Unlimited for two-way recording	
	Number of Channel for UM	30 ch	
	Length of Personal Greeting	Max: 360s	
	Group Distribution List	User: 4 groups, 40 members per group System: 20 groups, 200 members per group	
Web Maintenance Console	Service Group	64 entries	
	Unified Messaging Ports	30 ports	
	Users (User)	1,512 accounts ³	
	Users (Administrator)	32 accounts	
	Installer	1 account	
	Password (all account types)	4 – 16 characters	
ACD Report	Number of Call log for ACD report	600,000*	

*1 Only When System resources Type is selected in the Easy Setup Wizard. *2 The maximum number of recordings that can be stored in each type of mailbox is 9,000.

*3 The total number of administrator and user accounts combined cannot exceed 1,512.

*4 Basis of the number 10,000 (calls per day): Ex. 50 (agent) x 20 (call/hour - agent) x 10 (hour/day) A maximum of 12 months of ACD reports are saved and the exceeded data is deleted automatically.

Feature List

1. Call Handling Features

Incoming Call Features

- Incoming Trunk Call Features
- Direct In Line (DIL)
- Direct Inward Dialling (DID)/Direct Dialling In (DDI)
- Multiple Subscriber Number (MSN) Ringing Service
- Calling Line Identification (CLI) Distribution
- Intercept Routing
- Intercept Routing—No Destination
- Internal Call Features
- Internal Call Block
- Incoming Call Indication Features
- Ring Tone Pattern Selection
- Call Waiting

Receiving Group Features

- Idle Extension Hunting
- Incoming Call Distribution Group Features
- Group Call Distribution
- Outside Destinations in Incoming Call Distribution Group
- Queuing Feature
- Distribution Order
- VIP Call
- Overflow Feature
- Log-in/Log-out
- Supervisory Feature
- Supervisory Feature (ACD)

Call Forwarding (FWD)/Do Not Disturb (DND) Features

- Call Forwarding (FWD)
- Do Not Disturb (DND)
- FWD/DND Button, Group FWD Button

Answering Features

- Line Preference—Incoming
- Call Pickup

Making Call Features

- Predialling
- Automatic Extension Release
- Intercom Call
- Trunk Call Features
- Emergency Call
- Account Code Entry
- Dial Type Selection
- Reverse Circuit
- Trunk Busy Out
- Pause Insertion
- Host PBX Access Code (Access Code to the Telephone Company from a Host PBX)
- Special Carrier Access Code
- Seizing a Line Features
- Line Preference—Outgoing
- Trunk Access

Memory Dialling Features

- One-touch Dialling
- Last Number Redial
- Speed Dialling—Personal/System
- Quick Dialling
- Hot Line

Toll Restriction (TRS)/Call Barring (Barring) Features

- Toll Restriction (TRS)/Call Barring (Barring)
- Budget Management
- Extension Dial Lock
- Dial Tone Transfer
- Walking COS
- Verification Code Entry

Automatic Route Selection (ARS) Features

- Automatic Route Selection (ARS)

Primary Directory Number (PDN)/Secondary Directory Number (SDN) Features

- Primary Directory Number (PDN)/Secondary Directory Number (SDN) Extension

Busy Line/Busy Party Features

- Automatic Callback Busy (Camp-on)
- Executive Busy Override
- Call Monitor
- Second Call Notification to Busy Extension
- Call Waiting Tone
- Off-hook Call Announcement (OHCA)
- Whisper OHCA

Conversation Features

- Hands-free Operation
- Off-hook Monitor
- Mute
- Headset Operation
- Data Line Security
- Flash/Recall/Terminate
- External Feature Access (EFA)
- Trunk Call Limitation
- Calling Party Control (CPC) Signal Detection
- One-numbered Extension
- Transferring Features
- Call Transfer
- SIP Refer Transfer
- Holding Features
- Call Hold
- Call Park
- Call Splitting
- Music on Hold

Conference Features

- Conference
- Privacy Release
- Conference Group Call Features
- Conference Group Call
- Direct Inward System Access (DISA) Features
- Direct Inward System Access (DISA)
- Automatic Fax Transfer

Paging Features

- Paging
- Trunk Answer From Any Station (TAFAS)
- Semi-Automatic Paging
- External Device Features
- Doorphone Call
- Door Open
- External Sensor
- External Relay Control
- Caller ID Features
- Caller ID
- Incoming Call Log
- Message Features
- Message Waiting
- Absent Message

Proprietary Telephone (PT) Hardware Features

- Fixed Buttons
- Flexible Buttons
- LED Indication
- Display Information
- Administrative Information Features
- Record Log Features
- Station Message Detail Recording (SMDR)
- Syslog Record Management
- Printing Message
- Call Charge Services
- Hospitality Features
- Room Status Control
- Call Billing for Guest Room
- Extension Controlling Features
- Extension Personal Identification Number (PIN)
- Extension Feature Clear
- Walking Extension Features
- Walking Extension
- Enhanced Walking Extension
- Walking Extension-Home position control

Timed Reminder

Audible Tone Features

- Dial Tone
- Confirmation Tone

Computer Telephony Integration (CTI) Features

- Computer Telephony Integration (CTI)
- CA (Communication Assistant)
- UC Pro

Cellular Phone Features

- Miscellaneous Features
- Background Music (BGM)
- Outgoing Message (OGM)

2. Unified Messaging System

Unified Messaging System Administration

- System Administration
- Automatic Configuration of Mailboxes
- Custom Service Builder
- Default Mailbox Template
- Password Administration
- System Backup/Restore
- System Reports
- System Security
- Fax Server
- System and Subscriber Features
- System Features
- Alternate Extension Group
- Auto Forwarding
- Automated Attendant (AA)
- Automatic Two-way Recording for Manager
- Broadcasting Messages
- Call Services
- Call Transfer to Outside
- Caller ID Call Routing
- Caller ID Screening
- Caller Name Announcement
- Class of Service (COS)
- Company Greeting
- Company Name
- Covering Extension
- Custom Service
- Dialling by Name
- Emergency Greeting
- Extension Group
- Fax Service
- Hold
- Holiday Service
- Hospitality Mode
- Intercept Routing to a Mailbox
- Intercom Paging
- Interview Service
- List All Names
- Logical Extension (All Calls Transfer to Mailbox)
- Message Reception Mode
- Message Waiting Notification—E-mail Device
- Message Waiting Notification—Lamp
- Message Waiting Notification—Telephone Device
- Multilingual Service
- No DTMF Input Operation
- On Hold Announcement Menu
- Operator Service
- PIN Call Routing
- Play System Prompt After Personal Greeting
- Port Service
- Remote Time Service Set
- Service Group
- Simplified Tutorial
- System Prompts
- Transfer Recall to a Mailbox
- Transfer to Mailbox
- Trunk Service (Universal Port)
- Voice Mail Service

Subscriber Features

- Auto Receipt
- Automatic Fax Delivery
- Automatic Login
- Autoplay New Message
- Bookmark
- Call-through Service
- Call Transfer Scenario
- Call Transfer Status
- Callback Number Entry
- Caller ID Callback
- Delete Message Confirmation
- Direct Service Access
- External Message Delivery Service
- Fax Cover Page
- Fax Driver
- Forwarding to a Mailbox
- Group Distribution Lists
- Incomplete Call Handling Service
- Live Call Screening (LCS)
- Mailbox
- Mailbox Capacity Warning
- Manager Service Switching
- Message Transfer
- Personal Custom Service
- Personal Greetings
- Private Message
- Recover Message
- Remote Absent Message
- Remote Call Forwarding Set
- Send to Fax Machine
- Subscriber Tutorial
- Timed Reminder Setting
- Toll Saver
- Two-way Record/Two-way Transfer
- Urgent Message
- Voice Mail (VM) Transfer Button
- Web Programming
- E-mail Client Integration Features
- Integration with Microsoft Outlook
- IMAP Integration

3. Network Features

Public Network Features

- SIP (Session Initiation Protocol) Trunk
- SIP Server Failover
- Direct SIP Connection
- Multiple SIP Provider Connection
- UPnP
- Integrated Services Digital Network (ISDN) Service Features
- Calling/Connected Line Identification Presentation (CLIP/COLP)
- Advice of Charge (AOC)
- Call Forwarding (CF)—by ISDN (P-MP)
- Call Forwarding (CF)—by ISDN (P-P)
- Call Hold (HOLD)—by ISDN
- Call Transfer (CT)—by ISDN
- Three-party Conference (3PTY)—by ISDN
- Malignous Call Identification (MCID)
- Completion of Calls to Busy Subscriber (CCBS)
- ISDN Service Access by Keypad Protocol
- One-look Networking
- Network Type Comparison
- One-look Networking Survivability
- Backup Master Mode and Isolated Mode
- Automatic Rerouting to Secondary PBX
- UM Group Failover
- Private Network Features
- TIE Line Service
- Making a TIE Line Call
- TIE Line and Trunk Connection
- TIE Line Programming
- Common Extension Numbering for 2 PBXs

ISDN Virtual Private Network (ISDN-VPN)

- Voice over Internet Protocol (VoIP) Network
- Gateway Groups
- Common Extension Numbering for Multiple PBXs
- Call Distribution Port Group
- QSIG Standard Features
- Calling/Connected Line Identification Presentation (CLIP/COLP) and Calling/Connected Name Identification Presentation (CNIP/CNPN)—by QSIG
- Call Forwarding (CF)—by QSIG
- Call Transfer (CT)—by QSIG
- Completion of Calls to Busy Subscriber (CCBS)—by QSIG
- QSIG Enhanced Features
- Network Direct Station Selection (NDSS)
- Centralised Voice Mail
- Network ICD Group
- PS Roaming by Network ICD Group

4. System Configuration and Administration Features

System Configuration—System

- Class of Service (COS)
- Group
- Tenant Service
- Time Service
- Operator Features
- Manager Features
- FOS Interface (Fidello Compatible FOS Support)
- System Configuration—Extensions
- IP Proprietary Telephone (IP-PT)
- SIP (Session Initiation Protocol) Extension
- Panasonic SIP Phones (P-SIP)
- SIP Portable Station (S-PS) and SIP Cell Station (SIP-CS)
- Simple Remote Connection
- Peer-to-Peer (P2P) Connection
- Portable Station (PS) Features
- Portable Station (PS) Connection
- PS Ring Group
- PS Directory
- PS Feature Buttons
- Wireless XDP Parallel Mode
- Virtual PS
- ISDN Extension Features
- ISDN Extension
- IP-CS (KX-NS0154)

Legacy Device Connection

- Stacking Connection
- Trunk Adapter Connection

E-mail Notification Features

- E-mail Notification for Extension Users
- E-mail Notification of System-level Events
- E-mail Notification of Sensor Alarm
- E-mail Notification for Manager
- System Data Control
- User Profiles
- PC Programming
- PT Programming
- DSP Resource Usage
- DSP Resource Reservation
- DSP Resource Advisor
- Automatic Setup
- Dynamic Host Configuration Protocol (DHCP) Server
- Flexible Numbering/Fixed Numbering
- Floating Extension
- Software Upgrading

Fault Recovery/Diagnostics

- UPS (Uninterruptible Power Supply) Integration
- Power Failure Transfer
- Power Failure Restart
- Local Alarm Information
- Simple Network Management Protocol (SNMP) System Monitor
- Dynamic Host Configuration Protocol (DHCP) Assignment
- Ping Confirmation

• Functions and maximum capacity vary depending on the KX-NS1000 software version. • KX-NS0154 is supported by version 4.01 or later.

• Some operations may vary depending on the type of telephone being used. Please consult a Panasonic sales company for details.

• Note that the types of activation keys are subject to change without notice.

Design and specifications are subject to change without notice.

KX-NS10E-SP 1810TP/FP-14