



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 ^{*3})	-	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 ^{*3})	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 Dial Pulse (DP) 10 pps, 20 pps Tone (DTMF) Dialling with Caller ID (FSK/DTMF) 1600 Ω Maximum	
	Extension Dial Pulse (DP) 10 pps, 20 pps Tone (DTMF) Dialling with Caller ID (FSK/DTMF) SLC1 port supports PFT in combination with the LCOT1 port connected to an analogue trunk.	
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 LAN Port WAN Port	1 (for PC connection) 1 (for LAN connection) 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	KX-NSF201	
		Announcement of waiting number for queuing	KX-NSXF021	
	Report	ACD report	KX-NSXF022	
		Enhanced Built-in ACD Report ^{*1}	KX-NSXF023	
		Call Statistics Report	KX-NSXF202	
	Remote Maintenance	KX-NS5101		
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	KX-NSM102	
		4 ch	KX-NSM104	
		8 ch	KX-NSM108	
		16 ch	KX-NSM116	
IP Telephone ^{*2}	IP Phone Capacity	Up to 50 ch	KX-NSM005	
		Up to 100 ch	KX-NSM010	
		Up to 300 ch	KX-NSM030	
		Up to 640 ch	KX-NSM099	
		51 - 100 ch (Expansion from KX-NSM005)	KX-NSX910	
		101 - 300 ch (Expansion from KX-NSM010)	KX-NSX930	
	301 - 640 ch (Expansion from KX-NSM030)	KX-NSX999		
	IP PTs/IP Phones/ IP Camera/ IP Video Doorphone/ IP Softphones	1 ch	KX-NSM201	
		5 ch	KX-NSM205	
		10 ch	KX-NSM210	
		20 ch	KX-NSM220	
	IP PTs/IP Phones IP Camera/ IP Video Doorphone	1 ch	KX-NSM501	
		5 ch	KX-NSM505	
		10 ch	KX-NSM510	
		20 ch	KX-NSM520	
	3rd Party SIP Phones	1 ch	KX-NSM701	
		5 ch	KX-NSM705	
		10 ch	KX-NSM710	
		20 ch	KX-NSM720	
	Cellular Phone Extension	Mobile Extension	1 ch	KX-NSE101
5 ch			KX-NSE105	
10 ch			KX-NSE110	
20 ch			KX-NSE120	
IP-CS Channel Expansion	Channel Expansion (from 4 to 8 ch)	1 CS	KX-NSE201	
		5 CS	KX-NSE205	
		10 CS	KX-NSE210	
		20 CS	KX-NSE220	
CTI	CSTA Multiplexer	Multiple CSTA connection, FOS interface	KX-NSA020	
	3rd Party CTI link	CTI interface, FOS interface	KX-NSF101	
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	KX-NSU102	
		4 ch	KX-NSU104	
	User (Mailbox) Activation Key			
	E-mail (IMAP4) Client/ E-mail Notification	1 user	KX-NSU201 ^{*3}	
		5 users	KX-NSU205 ^{*3}	
		10 users	KX-NSU210 ^{*3}	
		20 users	KX-NSU220 ^{*3}	
		All users	KX-NSU299 ^{*3}	
Two-way Recording/ Two-way Transfer	1 user	KX-NSU301		
	5 users	KX-NSU305		
	10 users	KX-NSU310		
	20 users	KX-NSU320		
	All users	KX-NSU399		
Communication Assistant	User Activation Key			
	CA PRO	1 user	KX-NSA201	
		5 users	KX-NSA205	
		10 users	KX-NSA210	
		40 users	KX-NSA240	
		128 users	KX-NSA249	
	CA Supervisor	1 user	KX-NSA301	
	CA Operator Console	1 user	KX-NSA401	
	CA Network Plug-in	1 user	KX-NSA901	
		5 users	KX-NSA905	
		10 users	KX-NSA910	
		40 users	KX-NSA940	
		128 users	KX-NSA949	
	CA Thin Client	Thin Client Server Connection	KX-NSA010	
	Package	Standard (E-mail/Two-way Recording)	1 user	KX-NSP001
5 users			KX-NSP005	
10 users			KX-NSP010	
20 users			KX-NSP020	
Advanced (E-mail/Two-way Recording/ Mobile/CA PRO)		1 user	KX-NSP101	
		5 users	KX-NSP105	
		10 users	KX-NSP110	
		20 users	KX-NSP120	
Mobile (E-mail/Mobile)		1 user	KX-NSP201	
		5 users	KX-NSP205	
		10 users	KX-NSP210	
		20 users	KX-NSP220	

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	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}
	100 lines	KX-UCPM0100W ^{*4}
	250 lines	KX-UCPM0250W ^{*4}
Upgrading from UC Pro	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	KX-NS0131	●	–	–	–	
	Stacking Card for KX-TDE/TDA Series	KX-NS0132	–	●	●	●	
Physical Trunk	4-Port Analogue	KX-NCP1180	●	–	–	–	
	T1	KX-NCP1187	●	–	–	–	
	E1	KX-NCP1188	●	–	–	–	
	2-Port BRI	KX-NCP1280	●	–	–	–	
	PRI	KX-NCP1290	●	–	–	–	
	8-Port Analogue	KX-TDA0180	–	●	●	–	
	16-Port Analogue	KX-TDA0181	–	●	●	–	
	8-Port DID	KX-TDA0182	–	●	●	●	
	4-Port Analogue	KX-TDA0183	–	●	●	–	
	8-Port E & M	KX-TDA0184	–	●	●	●	
	T1	KX-TDA0187	–	●	●	●	
	E1	KX-TDA0188	–	●	●	●	
	4-Port BRI	KX-TDA0284	–	●	●	●	
	8-Port BRI	KX-TDA0288	–	●	●	●	
	PRI23	KX-TDA0290	–	●	●	●	
	PRI30	KX-TDA0290CE/CJ	–	●	●	●	
	8-Port Analogue Trunk with CID	KX-TDA1180	–	–	●	–	
	8-Port Analogue Trunk with CID Daughter	KX-TDA1186	–	–	●	–	
	16-Port Analogue Trunk	KX-TDA6181	–	–	–	●	
	16-Port Analogue Trunk w/o CID	KX-TDA6381	–	–	–	●	
	16-Port Analogue Trunk with CID16	KX-TDA6382	–	–	–	●	
	Physical Extension	4-Port Digital Hybrid Extension	KX-NCP1170	●	–	–	–
		8-Port Digital Extension	KX-NCP1171	●	–	–	–
		16-Port Digital Extension	KX-NCP1172	●	–	–	–
8-Port Single Line Telephone Extension		KX-NCP1173	●	–	–	–	
16-Port Single Line Telephone Extension		KX-NCP1174	●	–	–	–	
4 Cell Station Interface		KX-TDA0143	–	●	●	●	
8 Cell Station Interface		KX-TDA0144	–	●	●	●	
8-Port Digital Hybrid Extension		KX-TDA0170	–	●	–	●	
8-Port Digital Extension		KX-TDA0171	–	●	●	●	
16-Port Digital Extension		KX-TDA0172	–	●	●	●	
8-Port Single Line Telephone Extension		KX-TDA0173	–	●	–	●	
16-Port Single Line Telephone Extension		KX-TDA0174	–	●	–	–	
16-Port Single Line Telephone Extension with Message Lamp		KX-TDA0175	–	●	–	–	
16-Port Single Line Telephone Extension with Caller ID		KX-TDA0177	–	●	–	●	
16-Port Single Line Telephone Extension with Caller ID and Message Lamp		KX-TDA1176	–	● ^{*1}	●	–	
24-Port Single Line Telephone Extension with Caller ID and Message Lamp		KX-TDA1178	–	● ^{*1}	●	–	
16-Port Single Line Telephone Extension		KX-TDA6174	–	–	–	●	
16-Port Single Line Telephone Extension with Message Lamp		KX-TDA6175	–	–	–	●	
24-Port Single Line Telephone Extension with Caller ID		KX-TDA6178	–	–	–	●	
24-Port Single Line Telephone Extension with Caller ID and Message Lamp		KX-TDA6179	–	–	–	● ^{*2}	
Others	Optional 3-Slot Base	KX-NCP1190	●	–	–	–	
	4-Port Doorphone	KX-TDA0161	●	●	●	●	
	2-Port Doorphone (German Type)	KX-TDA0162	●	●	●	●	
	4-Port External Input/Output	KX-TDA0164	●	●	●	●	
	16-Channel Echo Canceller	KX-TDA0166	●	●	●	–	
	Extension Caller ID	KX-TDA0168	–	●	–	●	
	8-Port Caller ID/Pay Tone	KX-TDA0189	–	●	●	●	
	Optional 3-Slot Base	KX-TDA0190	–	●	●	●	
	8-Port Caller ID	KX-TDA0193	–	●	●	●	
	16-Channel Echo Canceller	KX-TDA6166	–	–	–	●	
	PSUs	L-Type Power Supply Unit	KX-TDA0103	–	● ^{*3}	–	●
		M-Type Power Supply Unit	KX-TDA0104	–	●	–	●
S-Type Power Supply Unit		KX-TDA0108	–	● ^{*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	Item	Capacity	
System	Absent Message—Extension	1 x 16 characters	TRS/Barring Level	7	
	Absent Message—System	8 x 16 characters	TRS/Barring Denied Code	16 digits, 100 entries/level	
	Call Park Zone	100	TRS/Barring Exception Code	16 digits, 100 entries/level	
	Conference	3 – 8 parties per conference 96 parties total per KX-NS1000 PBX 32 parties total per legacy gateway	Routing Plan Table	48 entries	
	COS	512	Leading Number Table	16 digits, 1,000 entries	
	DID/DDI Table	32 digits, 1,000 entries	Leading Number Exception Table	16 digits, 200 entries	
	Extension number	1 – 5 digits	ARS Carrier	128	
	Extension Personal Identification Number (PIN)	10 digits, 1 entry/extension	Remitted Billing Code	10 digits	
	Host PBX Access Code	10 digits, 10 entries/trunk group	Authorisation Code for Tenant	16 digits	
	Multiple Subscriber Number (MSN)	10 entries per ISDN-BRI port	Authorisation Code for Trunk Group	10 digits	
	Number of Characters of Name	20	Outgoing Call Log—PT	100 records/extn. 5,000 records/system	
	Printing message	8	Outgoing Call Log—PS	100 records/extn. 2,560 records/system	
	Queuing Time Table	128	Incoming Call Log—PT	100 records/extn. 10,000 records/system	
	Ring Tone Pattern Plan	8	Incoming Call Log—PS + Incoming Call Distribution Group	100 records/extn. or group, Total 5, 120 records/system	
	Simultaneous Programmers (PT Programming)	• 1 manager programmer + 63 personal programmers • 64 personal programmers	Message Waiting—PS + Incoming Call Distribution Group	Total 5, 120 records/system	
	Simultaneous Programmers (Web Maintenance Console)	• 1 Installer level account • 32 User and Administrator level accounts	Message Waiting—PT + SLT	1,000	
	SMDR Call Storage	1,000 calls	Outgoing Message (OGM)	64	
	Special Carrier Access Code	16 digits, 100 entries	OGM Total Recording Time	Approx. 64 minutes	
	Tenant	32 / 128*	Billing Items for guest rooms	4,000 records/PBX	
	Time Service Holiday	24	Hotel Operator	4	
	Verification Code	4 digits, 1,000 entries	Charge Rate	7 digits including a decimal	
	Verification Code Personal Identification Number (PIN)	10 digits, 1,000 entries	Charge Denomination	3 currency characters/symbols	
	Dialling	Emergency Call	32 digits, 10 entries	One-look Networking	1 Master unit, 15 Slave units
		Hot Line	32 digits	Stacking connection (Legacy Gateway)	8 (One-look Networking)
Key Pad Protocol Dial (ISDN Service Access)		32 digits	E1 trunk/PRI adapter	16	
Personal Speed Dialling		32 digits, 100 entries/extn.	TIE Line Routing and Modification Table	32 entries	
Quick Dialling		8 digits, 4,000 entries	Leading Number	3 digits	
Redial		32 digits	PBX Code	7 digits	
System Speed Dialling		32 digits, 1,000 entries/tenant or 32 digits, 300 entries/tenant†	NDSS: Monitored PBXs	8	
One-touch Dialling—PT		32 digits, 5,000 entries/system	NDSS: Registered Extensions for Monitor PBX	250	
One-touch Dialling—PS		32 digits, 1,000 entries/system	Mailboxes*	1,022 subscriber mailboxes, 1 System Manager mailbox, 1 Message Manager mailbox	
Conference Group		8 (31 members/group for Conference Group Mode, 31 members/group for Broadcast Mode)	Total Recording Time	200h/450h/1000h (CF S/M/L)	
User Group		256	Maximum Message Length	1 - 60 min (programmable) Unlimited for two-way recording	
Groups		Call Pickup Group	96	Number of Channel for UM	30 ch
	Idle Extension Hunting Group	128 (16 extensions/group)	Length of Personal Greeting	Max: 360s	
	Incoming Call Distribution Group	128 (128 extensions/group)	Group Distribution List	User: 4 groups, 40 members per group System: 20 groups, 200 members per group	
	Paging Group	96	Service Group	64 entries	
	PS Ring Group	32	Unified Messaging Ports	30 ports	
	Trunk Group	96	Users (User)	1,512 accounts ¹	
	UM Group	1 group per PBX	Users (Administrator)	32 accounts	
	VM (DPT) Group	8 groups x 12 ports (24 channels)	Installer	1 account	
	VM (DTMF) Group	8 groups x 32 channels	Password (all account types)	4 – 16 characters	
	P2P Group	256	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
- Hands-free Answerback

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)
- 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

Time 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
- Caller Number Entry
- Call ID Callback
- Delete Service 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 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
- Malicious 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 (Fidelio Compatible FOS Support)

System Configuration—Extensions

- Multi-time/Holiday Table Support
- 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
- PS Ring Group
- PS Directory
- PS Feature Buttons
- 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.

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