Panasonic BUSINESS

KX-NSX2000
KX-NSX1000
PNMPR Software File Version 3.0

System Capacity

Maximum Trunks[*1]
The PBX supports the following number of trunks.

Type			KX-NSX2000			KX-NSX1000		
			Preinstalled	Stand-alone	Multi-connection	Preinstalled	Stand-alone	Multi-connection
Total Number of Trunks (Legacy+IP)			-	960	960	-	640	640
	IP		-	960	960	-	640	640
		SIP	-	960	960	-	640	640
		H.323	-	256	256	-	256	256
	Legacy		-	-	960	-	-	640
		Analogue (LCOT)	-	-	960	-	-	640
		BRI	-	-	960	-	-	640
		PRI23	-	-	960	-	-	640
		PRI30	-	-	960	-	-	640
		T1	-	-	960	-	-	640
		E1	-	-	960	-	-	640

Expansion Gateway System Capacity when Using Multi-site Networking

Type			Multi-site connection									
			KX-NS1000							KX-NS300		
			Stand-alone	With KX-TDA100, KX-TDA100D, KX-TDE100		With KX-TDA200, KX-TDE200		With KX-TDA600/KX-TDA620, KX-TDE600/KX-TDE620		Stand-alone	With KX-NS320		
				1 unit	2 units	1 unit	2 units	1 unit	2 units		1 unit	2 units	3 units
Total Number of Trunks (Legacy+IP)						256				52	88	124	160
	IP					256					16		
		SIP				256					16		
		H.323				48					16		
	Legacy		30	120	240	128	256	160	256	36	72	108	144
		Analogue (LCOT)	2	96[*2] / 112[*3]	192[*2] / 224[*3]	128	256	160	256	12	24	36	48
		BRI	8	96[*2] / 112[*3]	192[*2] / 224[*3]	128	256	160	256	8	24	40	56
		PRI23	23	92	184	92	184	115	230	23	46	69	92
		PRI30	30	120	240	120	240	150	256	30	60	90	120
		T1	-	96	192	96	192	120	240	-	-	-	-
		E1	-	120	240	120	240	150	256	30	60	90	120

Maximum Terminal Equipment
The following shows the number of each terminal equipment type supported by the PBX.

Type				KX-NSX2000			KX-NSX1000		
				Preinstalled[*4]	Stand-alone	Multi-connection	Preinstalled[*4]	Stand-alone	Multi-connection
User				100	2000	2000	70	1000	1000
Device for User (Extension)				100	2000	2000	70	1000	1000
Total Number of Devices Cannot Exceed the Total Number of Users	Wired Device			100	2000	2000	70	1000	1000
		IP Device		100	2000	2000	70	1000	1000
			IP-PT (KX-NT300/KX-NT500 Series)[*5] KX-HDV Series KX-TGP600	100	2000	2000	70	1000	1000
			SIP phone (3rd Party)	-	2000	2000	-	1000	1000
			Communication IP Camera / IP Video Doorphone[*6]	-	128	128	-	128	128
		Legacy		-	-	2000	-	-	1000
			SLT	-	-	2000	-	-	1000
			DPT (DXDP[*7])	-	-	1024 (2000)	-	-	512 (1000)
			APT	-	-	640	-	-	320
			DSS Console (KX-DT590/KX-DT390)	-	-	128	-	-	128
	PS			100	1000	1000	70	1000	1000
	Mobile Number in User Container			-	2000	2000	-	1000	1000
Add-on Key Module (KX-NT505)				-	128	128	-	64	64
Add-on Key Module (KX-NT303/KX-NT305)				-	2000	2000	-	1000	1000
CS				-	256	256	-	256	256
	IP-CS			-	256	256	-	256	256
	CS / PT-interface CS			-	-	256	-	-	256
Doorphone				-	-	124	-	-	124
Door Opener				-	-	124	-	-	124
External Sensor				-	-	124	-	-	124

Expansion Gateway System Capacity when Using Multi-site Networking

Type				Multi-site connection									
				KX-NS1000							KX-NS300		
				Stand-alone	With KX-TDA100, KX-TDA100D, KX-TDE100		With KX-TDA200, KX-TDE200		With KX-TDA600/KX-TDA620, KX-TDE600/X-TDE620		Stand-alone	With KX-NS320		
					1 unit	2 units	1 unit	2 units	1 unit	2 units		1 unit	2 units	3 units
User							(Depends on the number of users on the KX-NSX side)					(Depends on the number of users on the KX-NSX side)		
Device for User (Extension)							(Depends on the number of users on the KX-NSX side)					(Depends on the number of users on the KX-NSX side)		
Total Number of Devices Cannot Exceed the Total Number of Users	Wired Device						640				66	98	130	162
		IP Device					640					32		
			IP-PT (KX-NT300/KX-NT500 Series)[*5] KX-HDV Series KX-TGP600				640					32		
			SIP phone (3rd Party)				256					32		
			Communication IP Camera / IP Video Doorphone[*6]				128					32		
		Legacy		2	128	256	168	336	240	480	34	66	98	130
			SLT	2	128	256	168	336	240	480	32	64	96	128
			DPT (DXDP[*7])	-	128[*2] / 104[*3]	256[*2] / 208[*3]	256	512	160	320	18	34	50	66
			APT	-	12[*2] / -[*3]	24[*2] / -[*3]	64	128	80	160	8	16	24	32
			DSS Console (KX-DT590/KX-DT390)	-	8	16	8	16	64	64	8	8	8	8
	PS						(Depends on the number of users on the KX-NSX side)					(Depends on the number of users on the KX-NSX side)		
	Mobile Number in User Container						(Depends on the number of users on the KX-NSX side)					(Depends on the number of users on the KX-NSX side)		
Add-on Key Module (KX-NT505)							64					8		
Add-on Key Module (KX-NT303/KX-NT305)							640					32		
CS							64				36	40	44	48
	IP-CS							64					32		
	CS / PT-interface CS			-	32[*2] / 26[*3]		32		32		4	8	12	16
Doorphone				1	17	33	17	33	17	33	2	4	6	8
Door Opener				1	17	33	17	33	17	33	2	4	6	8
External Sensor				1	17	33	17	33	17	33	2	4	6	8

*1 The maximum trunks of an Expansion GW cannot exceed the capacity of the KX-NSX.
*2 Except KX-TDA100D.
*3 KX-TDA100D only.
*4 Only normal users are preinstalled.
*5 The KX-NT300 series is not supported by the KX-NSX2000/KX-NSX1000. It is only supported by expansion gateways in a multi connection system.
*6 Communication IP cameras and IP video doorphones are not counted in the number of users.
*7 When Digital XDP is used, the maximum number depends on the gateway system.

Specifications

KX-NSX2000 / KX-NSX1000		
Main CPU		Intel ATOM E3845 (Quad core 1.91 GHz)
Power Input	Rated Voltage	AC 100-240 V
	Frequency	50/60 Hz
	Current/Power	0.95-0.6 A
Power Consumption (when fully mounted)		50 W
External Backup Battery		External battery port is not supported. Support UPS
Memory Backup Duration		7 years
Operating Environment	Temperature	0 ℃ to 40 ℃
	Humidity	10 % to 90 % (non-condensing)
Conference Call Trunk		255 parties (85 x 3-party conference call, etc.)
RJ45 Port	MNT Port	Gigabit LAN Interface (for Maintenance)
	LAN1 Port	Gigabit LAN Interface (for IP Trunk/IP Extension/Expansion GW)
	LAN2 Port	Gigabit LAN Interface (for IP Trunk/IP Extension/Expansion GW)
	LAN3 Port	Gigabit LAN Interface (for IP Trunk/IP Extension/Expansion GW)
		10BASE-T/100BASE-TX/1000BASE-T (Auto MDI/MDI-X)
Air-cooling Method		Fan
Dimension		430 mm (W) x 88 mm (H) x 340 mm (D)
Weight (when fully mounted)		Under 5.0 kg

Available Devices and Services for Each User Grade

User Grade	Device				Service	
	Main	**Sub**	**Wireless**	**Mobile**	**UM Mailbox**	**Auto 2-way Manager**
Advanced User*1	KX-NT560, KX-NT556, KX-NT553, KX-NT551, KX-NT546, KX-NT543, KX-NT511 KX-HDV430, KX-HDV330, KX-HDV230, KX-HDV130, KX-HDV100 KX-DT546*4, KX-DT543*4, KX-DT521*4 KX-TCA385*5, KX-TCA285*5, KX-TCA185*5 KX-T7700 series*4*5 Mobile Softphone IP-Softphone	KX-NT560, KX-NT556, KX-NT553, KX-NT551, KX-NT546, KX-NT543, KX-NT511 KX-HDV430, KX-HDV330, KX-HDV230, KX-HDV130, KX-HDV100 KX-DT546*4, KX-DT543*4, KX-DT521*4 Mobile Softphone IP-Softphone	KX-TCA385*5, KX-TCA285*5, KX-TCA185*5 KX-WT115*4	Mobile number and other public phone number	Yes	Yes
Mobile User*2		Mobile Softphone				-
Normal User*3		-		-		

*1 Requires Normal User AK, Mobile User AK and Advanced User AK.
*2 Requires Normal User AK and Mobile User AK.
*3 Requires Normal User AK.
*4 Requires Expansion Gateway.
*5 If assigned as a main device, sub device and wireless device is unavailable.

Option List for KX-NSX2000/KX-NSX1000

Activation Keys

Component			Model No.
Main*1	Activate KX-NSX2000 main features (only for the KX-NSX2000)		KX-NSX201
	Activate KX-NSX1000 main features (only for the KX-NSX1000)		KX-NSX101
Maintenance	Activate maintenance features (Capturing Packet Trace/Expanding system logs/Software upgrade) Not necessary for 1st year, required from 2nd year		KX-NSX2201
Remote Maintenance	Activate remote maintenance features		KX-NSX6211
Ultimate Activation Key	Activate all activation key features at once except KX-NSX101, KX-NSX201, KX-NSX2201, KX-NSX6211, SIP Extension Activation Keys (KX-NSXS)		KX-NSXP101
IP Trunk	IP Trunks (H.323/SIP)	1 ch	KX-NSXT001
		10 ch	KX-NSXT010
		50 ch	KX-NSXT050
		100 ch	KX-NSXT100
User Concept	Normal User	1 user	KX-NSUN001
		10 users	KX-NSUN010
		50 users	KX-NSUN050
		100 users	KX-NSUN100
		500 users	KX-NSUN500
	Mobile User	1 user	KX-NSUM001
		10 users	KX-NSUM010
		50 users	KX-NSUM050
		100 users	KX-NSUM100
		500 users	KX-NSUM500
	Advanced User	1 user	KX-NSUA001
		10 users	KX-NSUA010
		50 users	KX-NSUA050
		100 users	KX-NSUA100
		500 users	KX-NSUA500
General SIP Phones	3rd party SIP-Extension	1 ch	KX-NSXS001
		10 ch	KX-NSXS010
		50 ch	KX-NSXS050
		100 ch	KX-NSXS100
		500 ch	KX-NSXS500
Panasonic Doorphone/IP Camera	Communication IP Camera/IP Video Doorphone	1 ch	KX-NSXN001
		10 ch	KX-NSXN010
IP-CS Channel Expansion	Channel Expansion (from 4 to 8 ch)	1 ch	KX-NSXE001
		10 ch	KX-NSXE010
		50 ch	KX-NSXE050
Optional Features	Unified Messaging	UM message backup	KX-NSXU003
		Two-way recording (manager control)	KX-NSXU004
	Call Centre	ACD report, announcement of waiting number for queuing	KX-NSXF002
		Announcement of waiting number for queuing	KX-NSXF021
		ACD report	KX-NSXF022
	Multiple CSTA Connection, FOS Interface		KX-NSXF004
	Communication Assistant	CA Operator Console (1 user)	KX-NSA401*2
	LDAP	LDAP connection	KX-NSXF005
	Expansion GW	Expansion GW connection for the KX-NSX2000/KX-NSX1000 (master unit)	KX-NSXF006
	Redundancy		KX-NSXF008

*1 Purchase required to activate the KX-NSX2000/KX-NSX1000.
*2 Available up to 8 Activation Keys.

Component		Model No.
UC Pro	5 users	KX-UCPA0005W
	10 users	KX-UCPA0010W
	25 users	KX-UCPA0025W
	50 users	KX-UCPA0050W
	75 users	KX-UCPA0075W
	100 users	KX-UCPA0100W
	250 users	KX-UCPA0250W
	500 users	KX-UCPA0500W
	1000 users	KX-UCPA1000W
	5 lines	KX-UCPL0005W
	10 lines	KX-UCPL0010W
	25 lines	KX-UCPL0025W
	50 lines	KX-UCPL0050W
	75 lines	KX-UCPL0075W
	100 lines	KX-UCPL0100W
	250 lines	KX-UCPL0250W
	500 lines	KX-UCPL0500W
	1000 lines	KX-UCPL1000W

Hardware

Component		Model No.
DSP	S (63 resources)	KX-NS0110
	M (127 resources)	KX-NS0111
	L (254 resources)	KX-NS0112
Storage Memory for VM Recording	S (Recording Time: 200 hours)	KX-NSX2135
	M (Recording Time: 400 hours)	KX-NSX2136
	L (Recording Time: 800 hours)	KX-NSX2137
	LL (Recording Time: 1,600 hours)	KX-NSX2138
Trunk Adaptor	E1	KX-NS8188
	PRI30	KX-NS8290CE
	PRI23	KX-NS8290
NSX Expansion Box	Pure IP-PBX	KX-NS1000**G
	Stacking Card for KX-TDE series	KX-NS0132**G
AC Power Cord		KX-A412

Preinstalled Activation Keys for Free Trial (60-days)

Activation Key	Activated Features
Redundancy	Activate redundancy function
CA Operator Console	CA Operator Console (2 users)
System Multi-Connection	Expansion GW connection for NSX Series (Master unit)
UM Message Backup	UM Message Backup
Automatic Two-way Recording	Automatic Two-way Recording for Manager
Call Centre Feature Enhancement	Built-in ACD Report, Announcement of waiting number for queuing
Multiple CSTA Connection, FOS Interface	Multiple CTI Connection, FOS Interface
External Database Synchronisation (LDAP)	Integration with LDAP server
Queue Position Announcement	Announcement of waiting number for queuing
Built-in ACD Report	Built-in ACD Report

Option List for Expansion Gateways

Activation Keys

Component		Model No.	Expansion Gateway			KX-NS300
			KX-NS1000	With Legacy Gateway		
				KX-TDA100D	KX-TDE600/KX-TDE620, KX-TDA600/KX-TDA620	
For Multi-connection Use						
Expansion GW	Expansion GW connection for the KX-NS300/KX-NS1000 (NS unit)	KX-NSXF007	●	–	–	●
Networking	Router function	KX-NSN101	●	–	–	–

Hardware

Component		Model No.	Expansion Gateway			KX-NS300
			KX-NS1000	With Legacy Gateway		
				KX-TDA100D	KX-TDE600/KX-TDE620, KX-TDA600/KX-TDA620	
DSP	S (63 resources)	KX-NS0110	●	–	–	–
		KX-NS5110	–	–	–	●
	M (127 resources)	KX-NS0111	●	–	–	–
	L (254 resources)	KX-NS0112	●	–	–	–
Storage Memory	XS (required to use as an expansion GW)	KX-NS3134	–	–	–	●
	S (required to use as an expansion GW)	KX-NS3135	–	–	–	●
	M (required to use as an expansion GW)	KX-NS3136	–	–	–	●
Trunk	6-Port Analogue Trunk Card (LCOT6)	KX-NS5180	–	–	–	●
	2-Port BRI Card (BRI2)	KX-NS5282	–	–	–	●
	4-Port BRI Card (BRI4)	KX-NS5284	–	–	–	●
	PRI Card (PRI23)	KX-NS5290	–	–	–	●
	PRI30/E1 Card (PRI30/E1)	KX-NS5290CE	–	–	–	●
	Doorphone Interface Card (DPH2)	KX-NS5162	–	–	–	●
Extension	4-Port Super Hybrid Extension Card (DHLC4)	KX-NS5170	–	–	–	●
	8-Port Digital Extension Card (DLC8)	KX-NS5171	–	–	–	●
	16-Port Digital Extension Card (DLC16)	KX-NS5172	–	–	–	●
	8-Port Single Line Telephone Extension Card (MCSLC8)	KX-NS5173	–	–	–	●
	16-Port Single Line Telephone Extension Card (MCSLC16)	KX-NS5174	–	–	–	●
Free	Stacking Master Card for Legacy Gateway (STACK-M)	KX-NS0130	●	–	–	–
	2-Port Analogue Trunk/2-Port SLT Card (SLC2/LCOT2)	KX-NS0180	●	–	–	–
	4-Port BRI/2-Port SLT Card (SLC2/BRI4)	KX-NS0280	●	–	–	–
	PRI30/2-Port SLT Card (SLC2/PRI30)	KX-NS0290CE	●	–	–	–
	PRI23/2-Port SLT Card (SLC2/PRI23)	KX-NS0290	●	–	–	–
FAX	FAX Interface Card (FAX)	KX-NS0106	●	–	–	–
Doorphone	Doorphone Interface Card (DOORPHONE)	KX-NS0161	●	–	–	–
Expansion Master	Expansion Master Card (EXP-M)	KX-NS5130	–	–	–	●
Legacy Gateway	Stacking Card for KX-TDE/KX-TDA Series (STACK-S (TDE))	KX-NS0132	–	●	●	–
Physical Trunk	8-Port Analogue Trunk Card (LCOT8)	KX-TDA0180	–	●	●	–
	16-Port Analogue Trunk Card (LCOT16)	KX-TDA0181	–	●	●	–
	8-Port DID Card (DID8)	KX-TDA0182	–	●	●	–
	4-Port Analogue Trunk Card (LCOT4)	KX-TDA0183	–	●	–	–
	8-Port E & M Trunk Card (E&M8)	KX-TDA0184	–	●	●	–
	T-1 Trunk Card (T1)	KX-TDA0187	–	●	●	–
	E-1 Trunk Card (E1)	KX-TDA0188	–	●	●	–
	4-Port BRI Card (BRI4)	KX-TDA0284	–	●	●	–
	8-Port BRI Card (BRI8)	KX-TDA0288	–	●	●	–
	PRI Card (PRI23)	KX-TDA0290	–	●	●	–
	8-Port Analogue Trunk Card with CID (CLCOT8)	KX-TDA1180	–	●	–	–
	8-Port Analogue Trunk Card with CID Daughter Card (CLCOT8E)	KX-TDA1186	–	●	–	–
	16-Port Analogue Trunk Card (ELCOT16)	KX-TDA6181	–	–	●	–
	16-Port Analogue Trunk Card w/o CID (ELCOT16)	KX-TDA6381	–	–	●	–
	16-Port Analogue Trunk Card with CID16 (ELCOT16)	KX-TDA6382	–	–	●	–
Physical Extension	4 Cell Station Interface Card (CSIF4)	KX-TDA0143	–	●	●	–
	8 Cell Station Interface Card (CSIF8)	KX-TDA0144	–	●	●	–
	8-Port Digital Hybrid Extension Card (DHLC8)	KX-TDA0170	–	–	●	–
	8-Port Digital Extension Card (DLC8)	KX-TDA0171	–	●	●	–
	16-Port Digital Extension Card (DLC16)	KX-TDA0172	–	●	●	–
	8-Port Single Line Telephone Extension Card (SLC8)	KX-TDA0173	–	–	●	–
	16-Port Single Line Telephone Extension Card with Caller ID (CSLC16)	KX-TDA0177	–	–	●	–
	16-Port Single Line Telephone Extension with Caller ID and Message Lamp Card (MCSLC16)	KX-TDA1176	–	●	–	–
	24-Port Single Line Telephone Extension with Caller ID and Message Lamp Card (MCSLC24)	KX-TDA1178	–	●	–	–
	16-Port Single Line Telephone Extension Card (ESLC16)	KX-TDA6174	–	–	●	–
	16-Port Single Line Telephone Extension with Message Lamp Card (EMSLC16)	KX-TDA6175	–	–	●	–
	24-Port Single Line Telephone Extension Card with Caller ID (ECSLC24)	KX-TDA6178	–	–	●	–
	24-Port Single Line Telephone Extension with Caller ID and Message Lamp Card (EMSLC24)	KX-TDA6179	–	–	●	–
Others	4-Port Doorphone Card (DPH4)	KX-TDA0161	–	●	●	–
	2-Port Doorphone Card (German Type) (DPH2)	KX-TDA0162	–	●	●	–
	4-Port External Input/Output Card (EIO4)	KX-TDA0164	–	●	●	–
	16-Channel Echo Canceller Card (ECHO16)	KX-TDA0166	–	●	–	–
	Extension Caller ID Card (EXT-CID)	KX-TDA0168	–	●	●	–
	8-Port Caller ID/Pay Tone Card (CID/PAY8)	KX-TDA0189	–	●	●	–
	Optional 3-Slot Base Card (OPB3)	KX-TDA0190	–	●	●	–
	8-Port Caller ID Card (CID8)	KX-TDA0193	–	●	–	–
	16-Channel Echo Canceller Card (EECHO16)	KX-TDA6166	–	–	●	–
PSUs	L-Type Power Supply Unit (PSU-L)	KX-TDA0103	–	–	●	–
	M-Type Power Supply Unit (PSU-M)	KX-TDA0104	–	–	●	–

Compatible Panasonic Equipment

The KX-NSX2000/KX-NSX1000 supports the following equipment:

Cell Stations
• DECT 4 Channel IP Cell Station Unit (KX-NS0154)

Doorphones
• IP Video Doorphone (e.g., KX-NTV160)

Telephones
• Panasonic Proprietary Telephones
  - IP proprietary telephones (e.g., KX-NT500 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)
  - SIP cordless phones (e.g., KX-TGP600)
  - Mobile Softphone (KX-UCMA)
  - IP conferencing phones (e.g., KX-NT700)
  - Third party SIP phones (SIP hardphones/SIP softphones)
• Others
  - Communication IP Camera (e.g., KX-NTV150)

Adaptors
• E1 Trunk Adaptor (KX-NS8188)
• PRI Adaptor (KX-NS8290CE, KX-NS8290)

If an expansion gateway is connected to a KX-NSX2000/KX-NSX1000, the following equipment is also supported.

Cell Stations

DECT
• 2-Channel Cell Station Unit (KX-TDA0155) *Except the KX-NS1000

Telephones
• Panasonic Proprietary Telephones
  - IP proprietary telephones (KX-NT300 series)
  - Digital Proprietary Telephone (e.g., KX-DT300 series, KX-DT500 series) *Except the KX-NS1000
  - DSS Console (e.g., KX-DT390, KX-DT590) *Except the KX-NS1000
  - Analogue Proprietary Telephone (e.g., KX-T7700 series) *Except the KX-NS1000
• Other
  - Single line telephones

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

Telephones
• Panasonic Proprietary Telephones
  - Digital Proprietary Telephone (e.g., KX-DT300 series, KX-DT500 series)
  - Portable Station (e.g., KX-TD7600 series)
  - DSS Console (e.g., KX-DT390, KX-DT590)
  - Analogue Proprietary Telephone (e.g., KX-T7700 series)

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	System/100, 100 for each tenant
	Conference	3 – 32 parties per conference 256 parties total per KX-NSX series PBX
	COS	512
	DID/DDI Table	32 digits, 7,000 entries
	Extension number	1 – 5 digits (PS:1-4 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	256
	Ring Tone Pattern Plan	8
	Simultaneous Programmers (PT Programming)	• one manager programmer + 127 personal programmers • 128 personal programmers
	Simultaneous Programmers (Web Maintenance Console)	• one installer level account • 1,000/2,000 User (User) level accounts • 128 User (Administrator) level accounts
	SMDR Call Storage	160,000 calls
	Special Carrier Access Code	16 digits, 100 entries
	Tenant	128
	Time Service Holiday	24
	Verification Code	4 digits, 2,000 entries
	Verification Code Personal Identification Number (PIN)	10 digits, 2,000 entries
	Charge Record for HOTEL	40,000 calls
Dialling	Emergency Call	32 digits, 20 entries
	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, System 4,000 + 1,000/Tenant
	Redial	32 digits
	System Speed Dialling	33,000/System *System wide: 1,000 entries *Tenant wide: 32,000 entries Max for 1 tenant: 1,000 entries
	One-touch Dialling—PT	32 digits, 5,000 entries/system
	One-touch Dialling—PS	32 digits, 1,000 entries/system
Groups	Conference Group	48 (31 members/group for Conference Group Mode, 31 members/group for Broadcast Mode)
	User Group	512
	Call Pickup Group	200

Item		Capacity
Groups	Idle Extension Hunting Group	256 (16 extensions/group)
	Incoming Call Distribution Group	256 (128 extensions/group)
	Paging Group	200
	PS Ring Group	32
	Trunk Group	128
	P2P Group	512
TRS/Barring	TRS/Barring Level	7
	TRS/Barring Denied Code	16 digits, 600 entries/level
	TRS/Barring Exception Code	16 digits, 600 entries/level
ARS	Routing Plan Table	240 entries
	Leading Number Table	16 digits, 5,000 entries
	Leading Number Exception Table	16 digits, 1,000 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	100 records/user 10,000 records/system
	Incoming Call Log	100 records/user 20,000 records/system
	Incoming Call Log—PS + Incoming Call Distribution Group	10,240 records/system
	Message Waiting—PS + Incoming Call Distribution Group	KX-NSX2000: 2,000 KX-NSX1000: 1,000
	Message Waiting—PT + SLT	KX-NSX2000: 2,000 KX-NSX1000: 1,000
Outgoing Message (OGM)	Outgoing Message (OGM)	128
	OGM Total Recording Time	Approx. 64 minutes
	OGM Port	128
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
Networking	Multi-Connection Networking	1 Main Unit 31 Expansion Gateway
	TIE Line Routing and Modification Table	32 entries
	Leading Number	3 digits
	PBX Code	7 digits
Unified Messaging	Number of Users (Number of General Mailboxes)	KX-NSX2000: 2,000 KX-NSX1000: 1,000
	Total Number of UM Mailboxes	KX-NSX2000: 2,608 KX-NSX1000: 1,608
	Tenant	128
	Class of Service	512

Item		Capacity
Unified Messaging	UM Channel	128
	Fax Channel	31
	IMAP Channel	72
	UM Recording Time	1,600 hours
	Message Length	1–60 minutes/Unlimited
	Number of Simultaneously Usable 2way Rec (Number of Conference Rooms)	85
	Auto 2way Rec Manager	96
	UM System Manager	1/Tenant
	UM Message Manager	1/Tenant
	UM Service Group	384/Tenant
	Custom Service	200/Tenant
	Mailbox Group	40
	Mailbox Group Member	200
Message Resource	System Guidance	1,400
	Custom Service Menu	200 items/Tenant
	Company Greeting	32
	Mailbox Group List Voice Label	20
	System Caller ID Caller Name	1,200
System Greeting Recording Length	Custom Service Menu	60
	Company Name	10
	Company Greeting	45
	System Mailbox Group Voice Label	10
	System Caller Name	10
	Prompt Selection	30
	Hold Announce Menu	30
Mailbox Greeting Recording Length	Mailbox Owner	10
	Personal Greeting	45
	Interview Message	10
	Personal Group List	10
	Personal Caller-ID	10
	EMD List Member Name	10
Call Centre	Supervisor	32
	Auto 2way Rec Manager	96
	Number of Call log for ACD report	1,200,000
Web Maintenance Console Accounts	Users (User)	KX-NSX2000: 2,000 accounts[*1] KX-NSX1000: 1,000 accounts
	Users (Administrator)	128 accounts
	Installer	1 account
	Password (all account types)	4 – 16 characters
ACD Report	Number of Call log for ACD report	KX-NSX2000: 1,200,000 KX-NSX1000: 600,000

*1 The total number of administrator and user accounts combined cannot exceed the maximum user accounts.

Feature List

1. Call Handling Features

Incoming Call Features
Incoming Trunk 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
• 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
Speed Dialling—External (LDAP)
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

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)

External Device Features
Doorphone Call
Door Open
External Sensor
External Relay Control
Communication IP Camera/IP Video Doorphone

Caller ID Features
Caller ID
Incoming Call Log

Message Features
Message Waiting
Absent Message

2. Unified Messaging System

Unified Messaging System Administration
System Administration
• 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
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

Multi-connection Networking
Network Type Comparison
Multi-connection Networking Survivability
• Simplified Isolated Mode

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
Voice over Internet Protocol (VoIP) Network
• Gateway Groups
• Common Extension Numbering for Multiple PBXs
• Call Distribution Port Group
ISDN Virtual Private Network (ISDN-VPN)
QSIG Standard Features
• Calling/Connected Line Identification Presentation (CLIP/COLP) and Calling/Connected Name Identification Presentation (CNIP/CONP)—by QSIG
• Call Forwarding (CF)—by QSIG

• Call Transfer (CT)—by QSIG
• Completion of Calls to Busy Subscriber (CCBS)—by QSIG

4. System Configuration and Administration Features

System Configuration—System
Class of Service (COS)
Group
Tenant Service
Time Service
Operator Features
Manager Features
FOS Interface

System Configuration—Extensions
IP Proprietary Telephone (IP-PT)
SIP (Session Initiation Protocol) Extension
• Simple Remote Connection
• Panasonic SIP Phones (P-SIP)
Peer-to-Peer (P2P) Connection
Portable Station (PS) Features
• Portable Station (PS) Connection
• PS Ring Group
• PS Directory
• PS Feature Buttons
ISDN Extension Features
• ISDN Extension
IP-CS (KX-NS0154)

Legacy Device Connection
Stacking Connection
Trunk Adaptor 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
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
System Monitoring

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
Timed Reminder
Smart Desk Features
• Service-in Feature
• Service-out Feature

Audible Tone Features
Dial Tone
Confirmation Tone

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

Cellular Phone Features
Background Music (BGM)
Outgoing Message (OGM)

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

User Concept
User Container
• User Container Configuration
• Individual User Information Management of the Construction and Maintenance Personnel
• Editing User Settings
• Security (Password)
• Smart Desk Features
• Linking with LDAP User Information
Call Control Feature
• Main Device/Device Common
• Sub-device
• DSS Console
• Wireless Device
• Public (Mobile Phone) Device
• UM (Mailbox)
• Various Logs and Reports
• CTI

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