

System Capacity

Maximum Trunks

The KX-NS500 supports the following number of trunks.

Type	Standalone/Slave Unit				One-look Networking ^{*1}
	KX-NS500	With 1 KX-NS520	With 2 KX-NS520	With 3 KX-NS520	
Total Number of Trunks	100	136	172	208	600
Legacy	36	72	108	144	600
BRI	8	24	40	56	600
PRI23	23	46	69	92	600
PRI30	30	60	90	120	600
E1	30	60	90	120	600
Analogue	12	24	36	48	600
IP	64	64	64	64	256
H.323	32	32	32	32	128
SIP	64	64	64	64	256

Maximum Terminal Equipment

The KX-NS500 supports the following number of terminal equipment.

Type	Standalone/Slave Unit				One-look Networking ^{*1}
	KX-NS500	With 1 KX-NS520	With 2 KX-NS520	With 3 KX-NS520	
Extensions (DXDP^{*2})	162 (176)	194 (224)	226 (272)	258 (320)	1000
Legacy (DXDP ^{*2})	34 (48)	66 (96)	98 (114)	130 (192)	1000
SLT	32	64	96	128	1000
DPT (T76xx/DTSxx)(DXDP ^{*2})	18 (32)	34 (64)	50 (96)	66 (128)	512 (1000)
API	8	16	24	32	336
IP	128	128	128	128	1000
IP-PT	128	128	128	128	1000
IP Phone	128	128	128	128	1000
DSS Console	8	8	8	8	64
CS	36	40	44	48	128
DPT-CS (2 ch)	4	8	12	16	128
DPT-CS (8 ch)	2	4	6	8	64
IP-CS	32	32	32	32	128
SIP-CS	16	16	16	16	128
PS	128	128	128	128	512
Built-in VM (ch) ^{*3}	2	2	2	2	-
Built-in UM (ch)	24	24	24	24	30
TVM Unit	2	2	2	2	8
Doorphone	2	4	6	8	80
Door Opener	2 ^{*4}	4 ^{*4}	6 ^{*4}	8 ^{*4}	80 ^{*4}
External Relay					
External Sensor	2	4	6	8	80

*1 The NS1000 must be used as the master unit. *2 When Digital XDP is used. *3 Cannot be used with a slave unit
*4 The total number of Door Openers and External Relays.

Option List

Hardware

Component	Model No.	Installed in	
DSP	S (63 resources)	KX-NS5110	DSP Card Slot
	M (127 resources)	KX-NS5111	
	L (254 resources)	KX-NS5112	
Storage Memory ^{*1}	XS (VM Recording Time: 40 hours)	KX-NS5134	Storage Memory Card Slot
	S (VM Recording Time: 200 hours)	KX-NS5135	
	M (VM Recording Time: 400 hours)	KX-NS5136	
Trunk	LCOT6	KX-NS5180	Trunk/Doorphone Slot
	BRI2	KX-NS5282	
	BRI4	KX-NS5284	
	PRI23	KX-NS5290	
	PRI30/E1	KX-NS5290CE	
	DPH2	KX-NS5162	
Extension	DHLC4	KX-NS5170	Extension Slot
	DLC8	KX-NS5171	
	DLC16	KX-NS5172	
	MCSLC8	KX-NS5173	
	MCSLC16	KX-NS5174	
Expansion Master Card	EXP-M		EXP-M Slot
Remote Modem	RMT	KX-TDA0196	RMT Slot

Activation Keys

Component	Model No.	
Networking	OSIG Network KX-NSN002	
	One-look Networking KX-NSN001	
System Function	Call Centre Feature ACD Report ^{*2} , Announcement of waiting number for queuing Announcement of waiting number for queuing KX-NSF201 KX-NSXF021	
	Report ^{*2} ACD report Enhanced Built-in ACD Report ^{*3} Call Statistics Report KX-NSXF022 KX-NSXF023 KX-NSXF202	
	Remote Maintenance KX-NS5101	
	IP Trunk	IP Trunks (H.323/SIP) 2 ch 4 ch 8 ch 16 ch KX-NSM102 KX-NSM104 KX-NSM108 KX-NSM116
		IP Telephone ^{*4}
Up to 4 ch Preinstalled		
IP PTs/IP Phones/ IP Camera/ IP Video Doorphone 1 ch 5 ch 10 ch 20 ch KX-NSM501 KX-NSM505 KX-NSM510 KX-NSM520		
3rd Party SIP Phones	1 ch 5 ch 10 ch 20 ch KX-NSM701 KX-NSM705 KX-NSM710 KX-NSM720	
	Cellular Phone Extension	

Component	Model No.			
IP-CS Channel Expansion	Channel Expansion (from 4 to 8 ch) 1 CS 5 CS 10 CS 20 CS KX-NSE201 KX-NSE205 KX-NSE210 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 Two-way REC (Recording) Control Message Backup KX-NSU002 KX-NSU003		
Unified Messaging Channel		2 ch 2 ch 4 ch Preinstalled KX-NSU102 KX-NSU104		
		User (Mailbox) Activation Key		
		E-mail (IMAP4) Client/ E-mail Notification	1 user 5 users 10 users 20 users All users KX-NSU201 ^{*3} KX-NSU205 ^{*3} KX-NSU210 ^{*3} KX-NSU220 ^{*3} KX-NSU299 ^{*3}	
Two-way Recording/ Two-way Transfer		1 user 5 users 10 users 20 users All users KX-NSU301 KX-NSU305 KX-NSU310 KX-NSU320 KX-NSU399		
		User Activation Key		
		CA Basic-Express	All users Preinstalled	
Communication Assistant		CA PRO	1 user 5 users 10 users 40 users 128 users KX-NSA201 KX-NSA205 KX-NSA210 KX-NSA240 KX-NSA249	
			CA Supervisor	1 user KX-NSA301
			CA Operator Console	1 user KX-NSA401
	CA Network Plug-in		1 user 5 users 10 users 40 users 128 users KX-NSA901 KX-NSA905 KX-NSA910 KX-NSA940 KX-NSA949	
			CA Thin Client	Thin Client Server Connection KX-NSA010
		Package	Standard (E-mail/Two-way Recording) 1 user 5 users 10 users 20 users KX-NSP001 KX-NSP005 KX-NSP010 KX-NSP020	
	Advanced (E-mail/Two-way Recording/Mobile/CA PRO)		1 user 5 users 10 users 20 users KX-NSP101 KX-NSP105 KX-NSP110 KX-NSP120	
			Mobile (E-mail/Mobile)	1 user 5 users 10 users 20 users KX-NSP201 KX-NSP205 KX-NSP210 KX-NSP220
				Mobile Softphone

*1 Storage Memory for VM Recording, ACD Report, SMDR expansion.

*2 Requires optional SD card.

*3 Requires KX-NSF201 or KX-NSXF022.

*4 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

*5 Preinstalled on system firmware versions 5.0 and later.

Activation Keys for UC Pro 2

Component	Model No.		
UC Pro V2 User AK	5 users 10 users 25 users 50 users 75 users 100 users 250 users 500 users 1000 users KX-UCPB0005W KX-UCPB0010W KX-UCPB0025W KX-UCPB0050W KX-UCPB0075W KX-UCPB0100W KX-UCPB0250W KX-UCPB0500W KX-UCPB1000W		
	UC Pro V2 Line AK	5 lines 10 lines 25 lines 50 lines 75 lines 100 lines 250 lines 500 lines 1000 lines KX-UCPM0005W KX-UCPM0010W KX-UCPM0025W KX-UCPM0050W KX-UCPM0075W KX-UCPM0100W KX-UCPM0250W KX-UCPM0500W KX-UCPM1000W	
		Upgrading from UC Pro	5 users 10 users 25 users 50 users 75 users 100 users 250 users 500 users 1000 users KX-UCPAB005W KX-UCPAB010W KX-UCPAB025W KX-UCPAB050W KX-UCPAB075W KX-UCPAB100W KX-UCPAB250W KX-UCPAB500W KX-UCPAB1KW

Specifications

		KX-NS500	KX-NS520
Main CPU		Cortex A8 600 MHz	Cortex A8 300 MHz
Power Input		100 V AC to 130 V AC: 2.2 A/200 V AC to 240 V AC: 1.3 A; 50 Hz/60 Hz	
Power Consumption (when fully mounted)		110 W	
Memory Backup Duration		7 years	
External Backup Battery		External battery port is supported.	
Dialling	Trunk	Dial Pulse (DP) 10 pps, 20 pps Tone (DTMF) Dialling	
	Extension	Dial Pulse (DP) 10 pps, 20 pps Tone (DTMF) Dialling	
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		32 parties (default)/96 parties (DSP installed) (10 x 3-party conference call, 12 x 8-party conference call, etc.)	–
Music on Hold (MOH)		Maximum 8 ports (Level Control: -31.5 dB to +31.5 dB per 0.5 dB) MOH: Selectable Internal/External Music Source Port	–
External Paging		Maximum 6 ports (Volume Control: -15.5 dB to +15.5 dB per 0.5 dB)	–
LAN Port	1 (for LAN connection)	10BASE-T/100BASE-TX (Auto MDI/MDI-X)	
Extension Connection Cable	SLT	1-pair wire (T, R)	
	DPT	1-pair wire (D1, D2)	
	APT	2-pair wire (T, R, D1, D2)	
	PT-interface CS	1-pair wire (D1, D2)	
	PT-interface CS (High-density)	4-pair wire (D1, D2)	
	DSS Console and Add-on Key Module	1-pair wire (D1, D2)	
Air-cooling Method		Fan	
Dimension		430 mm (W) x 367 mm (D) x 88 mm (H)	
Weight (when fully mounted)		Under 4.5 kg	

System Feature Capacity

		Item	Capacity
System	ARS	Absent Message—Extension	1 x 16 characters
		Absent Message—System	8 x 16 characters
		Call Park Zone	100
		Conference	3 – 8 parties per conference 32 parties (default)/96 parties (DSP installed)
		COS	64
		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	64	
	Ring Tone Pattern Plan	8	
	Call Log and Message Waiting	Simultaneous Programmers	• 1 system programmer + 63 personal programmers • 1 manager programmer + 63 personal programmers • 64 personal programmers
		Simultaneous Programmers (Web Maintenance Console)	• 1 Installer level account • 32 User (User) and User (Administrator) level accounts
		SMDR Call Storage	1,000 calls (Without SD card)/40,000 calls (With SD card)
		Charge Record for Hotel	1,000 calls (Without SD card)/10,000 calls (With SD card)
		Special Carrier Access Code	16 digits, 20 entries
		Tenant	8
		Time Service Holiday	24
		Verification Code	4 digits, 1,000 entries
		Verification Code Personal Identification Number (PIN)	10 digits, 1,000 entries
		Voice Message	Emergency Call
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		
One-touch Dialling—PT	32 digits, 5,000 entries/system		
One-touch Dialling—PS	32 digits, 1,000 entries/system		
Hospitality and Charge Management Features	Conference Group		8 (31 members/group for Conference Group Mode, 32 members/group for Broadcast Mode)
	User Group		32
	Call Pickup Group		64
	Idle Extension Hunting Group	64 (16 extensions/group)	
	Incoming Call Distribution Group	128 (128 extensions/group)	
	Paging Group	32	
	PS Ring Group	32	
	Trunk Group	64	
	UM Group	1	
	VM (DPT) Group	2 units x 12 ports (24 channels)	
	VM (DTMF) Group	2 groups x 32 channels	
	P2P Group	32	
Networking	TRS/Barring Level	7	
	TRS/Barring Denied Code	16 digits, 100 entries/level	
	TRS/Barring Exception Code	16 digits, 100 entries/level	
	Voice Message	Outgoing Call Log—PT	100 records/extn. 1,520 records/system
		Outgoing Call Log—PS	100 records/extn. 640 records/system
		Incoming Call Log—PT	100 records/extn. 3,040 records/system
		Incoming Call Log—PS + Incoming Call Distribution Group	100 records/extn. or group Total 2,560 records/system
		Message Waiting—PS + Incoming Call Distribution Group	256
		Message Waiting—PT + SLT	256
	Hospitality and Charge Management Features	Outgoing Message (OGM)	64
		OGM Total Recording Time	Approx. 20 minutes
		Build-in Simplified Voice Message (SVM)	125 messages
SVM Total Recording Time		120 minutes	
Number of Channel for SVM		2 ch	
Billing items for guest rooms		1,000 records/PBX (Without SD card)/ 10,000 records/PBX (With SD card)	
Networking	Hotel Operator	4	
	Charge Rate	7 digits including a decimal	
	Charge Denomination	3 currency characters/symbols	
	TIE Line Routing and Modification Table	32 entries	
	Leading Number	3 digits	
	PBX Code	7 digits	
Unified Messaging	NDSS: Monitored PBXs	8	
	NDSS: Registered Extensions for Monitor PBX	250	
	Mailboxes ^{*1}	500 subscriber mailboxes 1 System Manager mailbox 1 Message Manager mailbox	
	Total Recording Time	40h/200h/400h (SD XS/5/M)	
	Maximum Message Length	1 - 60 min (programmable) Unlimited for two-way recording	
	Number of Channel for UM	24 ch	
Web Maintenance Console Accounts	Length of Personal Greeting	Max: 360s	
	Custom Service	Up to 200	
	Group Distribution List	User: 4 groups, 40 members per group System: 20 groups, 200 members per group	
	Service Group	64 entries	
	Unified Messaging Ports	24 ports	
	Users (User)	492 accounts	
ACD Report	Users (Administrator)	8 accounts	
	Installer	1 account	
	Password (all account types)	4 – 16 characters	
	Number of Call log for ACD report	300,000 ^{*2}	

*1 The maximum number of recordings that can be stored in each type of mailbox is 9,000.

*2 Basis of the number 5,000 (calls per day): Ex. 25 (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.