

## System Capacity

### Maximum Trunks

The KX-NS300 supports the following number of trunks.

Type	Standalone/Slave Unit				One-look Networking <sup>1</sup>
	KX-NS300	With 1 KX-NS320	With 2 KX-NS320	With 3 KX-NS320	
<b>Total Number of Trunks</b>	<b>100 [52]<sup>2</sup></b>	<b>136 [88]<sup>2</sup></b>	<b>172 [124]<sup>2</sup></b>	<b>208 [160]<sup>2</sup></b>	<b>600</b>
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 [16] <sup>2</sup>	64 [16] <sup>2</sup>	64 [16] <sup>2</sup>	64 [16] <sup>2</sup>	256
H.323	32 [16] <sup>2</sup>	32 [16] <sup>2</sup>	32 [16] <sup>2</sup>	32 [16] <sup>2</sup>	128
SIP	64 [16] <sup>2</sup>	64 [16] <sup>2</sup>	64 [16] <sup>2</sup>	64 [16] <sup>2</sup>	256

### Maximum Terminal Equipment

The KX-NS300 supports the following number of terminal equipment.

Type	Standalone/Slave Unit				One-look Networking <sup>1</sup>
	KX-NS300	With 1 KX-NS320	With 2 KX-NS320	With 3 KX-NS320	
<b>Extensions (DXDP<sup>3</sup>)</b>	<b>162 (176) [66 (80)]<sup>2</sup></b>	<b>194 (224) [98 (128)]<sup>2</sup></b>	<b>226 (272) [130 (176)]<sup>2</sup></b>	<b>258 (320) [162 (224)]<sup>2</sup></b>	<b>1000</b>
Legacy (DXDP <sup>3</sup> )	34 (48)	66 (96)	98 (144)	130 (192)	1000
SLT	32	64	96	128	1000
DPT (T76xx/DTSxx)/DXDP <sup>3</sup>	18 (32)	34 (64)	50 (96)	66 (128)	512 (1000)
APT	8	16	24	32	336
IP	128 [32] <sup>2</sup>	128 [32] <sup>2</sup>	128 [32] <sup>2</sup>	128 [32] <sup>2</sup>	1000
IP-PT	128 [32] <sup>2</sup>	128 [32] <sup>2</sup>	128 [32] <sup>2</sup>	128 [32] <sup>2</sup>	1000
IP Phone	128 [32] <sup>2</sup>	128 [32] <sup>2</sup>	128 [32] <sup>2</sup>	128 [32] <sup>2</sup>	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) <sup>4</sup>	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 <sup>5</sup>	4 <sup>5</sup>	6 <sup>5</sup>	8 <sup>5</sup>	80 <sup>5</sup>
External Relay					
External Sensor	2	4	6	8	80

\*1 The NS1000 must be used as the master unit. \*2 The numbers enclosed in square brackets (e.g., [66 (80)]) are the capacities when the PBX is connected as a slave unit in a One-look network. \*3 When Digital XDP is used. \*4 Cannot be used with a slave unit \*5 The total number of Door Openers and External Relays.

## Option List

### Hardware

Component	Model No.	Installed in
DSP	S (63 resources)	DSP Card Slot
	M (127 resources)	
	L (254 resources)	
Storage Memory <sup>1</sup>	XS (VM Recording Time: 40 hours)	Storage Memory Card Slot
	S (VM Recording Time: 200 hours)	
	M (VM Recording Time: 400 hours)	
Trunk	LCO76	Trunk/Doorphone Slot
	BRI2	
	BRI4	
	PRI23	
	PRI30/E1	
	DPH2	
	DHLC4	
Extension	DLC8	Extension Slot
	DLC16	
	MCSLC8	
	MCSLC16	
	EXP-M	
Expansion Master Card	KX-NS5170	EXP-M Slot
Remote Modem	KX-NS5130	RMT Slot
	KX-TDA0196	RMT Slot

### Activation Keys

Component	Model No.
Networking	QSIG Network
	One-look Networking
System Function	Call Centre Feature
	Report <sup>2</sup>
	Remote Maintenance
	VoIP/Unified Message (UM)
IP Trunk	IP Trunks (H.323/SIP)
	IP PTs/IP Phones/IP Camera/IP Video Doorphone/IP Softphones
	IP Telephone <sup>4</sup>
	3rd Party SIP Phones
	Mobile Extension

Component	Model No.	
IP-CS Channel Expansion	Channel Expansion (from 4 to 8 ch)	
	1 CS	
	5 CS	
	10 CS	
CTI	CSTA Multiplexer	
	3rd Party CTI link	
Unified Messaging System	Feature	
	Two-way REC (Recording) Control	
	Message Backup	
	Unified Messaging Channel	
	User (Mailbox) Activation Key	
	E-mail (IMAP4) Client/E-mail Notification	
	Two-way Recording/Two-way Transfer	
	CA Basic-Express	
	CA PRO	
	CA Supervisor	
CA Operator Console		
Package	CA Network Plug-in	
	CA Thin Client	
	Standard (E-mail/Two-way Recording)	
	Advanced (E-mail/Two-way Recording/Mobile/CA PRO)	
	Mobile (E-mail/Mobile)	
	Mobile Softphone	Thin Client Server Connection
		1 user
		5 users
		10 users
		20 users

\*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
UC Pro V2 Line AK	100 users
	250 users
	500 users
	1000 users
	5 lines
Upgrading from UC Pro	10 lines
	25 lines
	50 lines
	75 lines
	100 lines
	250 lines
	500 lines
	1000 lines
	5 users
	10 users
25 users	
50 users	
75 users	
100 users	
250 users	
500 users	
1000 users	

# Specifications

		KX-NS300	KX-NS320
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	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	
	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	
	Dialling	Emergency Call		32 digits, 10 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, 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	
Groups		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	
	TRS/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		48	
	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. 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
	Voice Message	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
	Hospitality and Charge Management Features	Billing items for guest rooms		1,000 records/PBX (Without SD card)/ 10,000 records/PBX (With SD card)
		Hotel Operator		4
		Charge Rate		7 digits including a decimal
	Networking	Charge Denomination		3 currency characters/symbols
		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 <sup>*1</sup>		500 subscriber mailboxes 1 System Manager mailbox 1 Message Manager mailbox	
	Total Recording Time		40h/200h/400h (SD XS/S/M)	
	Maximum Message Length		1 - 60 min (programmable) Unlimited for two-way recording	
	Number of Channel for UM		24 ch	
	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	
Web Maintenance Console Accounts	Service Group		64 entries	
	Unified Messaging Ports		24 ports	
	Users (User)		492 accounts	
	Users (Administrator)		8 accounts	
ACD Report	Installer		1 account	
	Password (all account types)		4 – 16 characters	
	Number of Call log for ACD report		300,000 <sup>*2</sup>	

\*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.