



System Capacity

Maximum Trunks

The PBX 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

Option List Hardware

Component	Model No.	Installed in
DSP	S (63 resources)	DSP Card Slot
	M (127 resources)	
	L (254 resources)	
Storage Memory ¹	XS (VM Recording Time: 40 hours)	Storage Memory Card Slot
	S (VM Recording Time: 200 hours)	
	M (VM Recording Time: 400 hours)	
Trunk	LCOT6	Trunk/Doorphone Slot
	BRI2	
	BRI4	
	PRI23	
	PRI30/E1	
	DPH2	
Extension	DHLC4	Extension Slot
	DLC8	
	DLC16	
	MCLC8	
	MCLC16	
Expansion Master Card	EXP-M	EXP-M Slot
Remote Modem	RMT	RMT Slot

Activation Keys

Component	Model No.	Maximum	
Networking	QSIG Network	1 activation key	
	One-look Networking	16 activation key	
System Function	Call Centre Feature	1 activation key	
IP Trunk	2 ch	SIP 64 ch H.323 32 ch	
	4 ch		
	8 ch		
	16 ch		
IP Telephone ² - User Licence	1 ch	128 ch	
	5 ch		
	10 ch		
	20 ch		
	Up to 4 ch		
	1 ch		
	5 ch		
	10 ch		
	20 ch		
	Cellular Phone Extension - User Licence		1 ch
5 ch			
10 ch			
20 ch			
20 ch			
IP-CS Channel Expansion	1 CS	32 activation key	
	5 CS		
	10 CS		
	20 CS		
Unified Messaging System	Feature	1 activation key	
	Two-way REC (Recording) Control		
	Message Backup		
	User (Mailbox) Licence	2 ch	24 UM Ports
		2 ch	
		4 ch	
		4 ch	
	E-mail (IMAP4) Client/ E-mail Notification	1 user	500 mailboxes
		5 users	
		10 users	
		20 users	
		All users	
		1 user	
5 users			
10 users			
20 users			
All users			
All users			

¹ Storage Memory for VM Time, ACD Report, SMDR expansion.

² An SD card is necessary to use ACD Reports.

³ IP Pts: KX-NT500/300 Series IP Proprietary phones, KX-NT265 IP Softphones: KX-NC58100, KX-TDA0350 SIP Phones: KX-NT700 IP Conferencing phone and Third party SIP phones (SIP hardphones/SIP softphones).

⁴ The same number as the maximum number of allowable extensions.

⁵ Annual Maintenance Licence.

Maximum Terminal Equipment

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

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 (168)	194 (208)	226 (248)	258 (288)	1000	
Legacy (DXDP ²)	34 (40)	66 (80)	98 (120)	130 (160)	1000	
SLT (DXDP ²)	32	64	96	128	512 (1000)	
DPT (T76xx/DT3xx)(DXDP ²)	18 (24)	34 (48)	50 (72)	66 (96)	512 (1000)	
DPT (T74xx/T75xx)	8	16	24	32	512	
APT	8	16	24	32	336	
IP	128	128	128	128	1000	
	IP-PT	128	128	128	1000	
	SIP	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
Doorphone	2	4	6	8	64	
Door Opener	2	4	6	8	64	
External Sensor	2	4	6	8	64	

¹ The NS1000 must be used as the master unit.

² When Digital XDP is used.

Component	Model No.	Maximum	
User Licence			
CA Basic-Express	All users	Preinstalled	
CA PRO	1 user	without CA server 240 users/ with CA server 416 users ⁴	
	5 users		
	10 users		
	40 users		
	128 users		
CA Supervisor	1 user	without CA server 4 users/ with CA server 128 users ⁴	
CA Operator Console	1 user	without CA server 128 users/ with CA server 128 users ⁴	
CA Network Plug-in	1 user	without CA server 240 users/ with CA server 1022 users ⁴	
	5 users		
	10 users		
	40 users		
CA Thin Client	Thin Client Server Connection	1 activation key	
CSTA Multiplexer	Multiple CSTA Connection	4 activation key	
CTI Licence			
3rd Party CTI link	CTI interface	1 activation key	
Partner Licence			
Potlits Communication Bridge	KX-NSB0001	16 activation key	
Potlits CCAccounting	KX-NSB0004		
Potlits CCAccounting A.L. ⁵	KX-NSB0005		
Potlits CCAcc. Enterprise	KX-NSB0006		
Potlits CCAcc. Enterprise A.L. ⁵	KX-NSB0007		
Potlits CCView	KX-NSB0008		
Potlits CCView A.L. ⁵	KX-NSB0009		
Potlits CCView add. PBX	KX-NSB0010		
Potlits CCView add. PBX A.L. ⁵	KX-NSB0011		
Potlits Number notice (Potlits Dialed Number Notification)	KX-NSB0012		
Potlits Number notice (Potlits Dialed Number Notification) A.L. ⁵	KX-NSB0013		
Potlits CCRRecord SIP (4 ports)	KX-NSB0014		
Potlits CCRRecord SIP A.L. ⁵ (4 ports)	KX-NSB0016		
Potlits CA RCS-Start	1 user		Combined total for licences: 350/system
	5 users		
	10 users		
	128 users		
	1 user		
	5 users		
	10 users		
	128 users		
	4 users		
	8 users		
Potlits CCRRecord Analogue	12 users	Combined total for licences: 350/system	
	16 users		
	24 users		
	4 users		
	8 users		
	12 users		
	16 users		
	24 users		
Potlits CCRRecord Digital	8 users	Combined total for licences: 350/system	
	16 users		
	24 users		
	8 users		
	16 users		
	24 users		
	1 port		
	2 ports		
	1 port		
	2 ports		
Potlits CCView Supervisor	1 user	Combined total for licences: 350/system	
	5 users		
	1 user		
	5 users		
	1 user		
	5 users		
	1 user		
	5 users		
	1 user		
	5 users		
Potlits CCAgent	1 user	Combined total for licences: 350/system	
	5 users		
	1 user		
	5 users		
	1 user		
	5 users		
	1 user		
	5 users		
	1 user		
	5 users		

Specifications

		KX-N5500	KX-N5520
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)		Normal rated power 104 VA	
Memory Backup Duration		7 years	
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 party conference call (10 x 3-party conference call, 4 x 8-party conference call, etc.)	
Music on Hold (MOH)		Internal MOH port: 2 ports (Level Control: -31.5 dB to +31.5 dB per 0.5 dB) External MOH port: 6 ports 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 total)
	COS	64
	DID/DDI Table	32 digits, 1000 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	*one system programmer + 63 personal programmers *one manager programmer + 63 personal programmers *64 personal programmers
	Simultaneous Programmers (Web Maintenance Console)	* one Installer level account * 32 User (User) and User (Administrator) level accounts
	SMDR Call Storage	1000 calls (Without SD card)/40000 calls (With SD card)
	Charge Record for Hotel	1000 calls (Without SD card)/10000 calls (With SD card)
	Special Carrier Access Code	16 digits, 20 entries
	Tenant	8
Time Service Holiday	24	
Verification Code	4 digits, 1000 entries	
Verification Code Personal Identification Number (PIN)	10 digits, 1000 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/extern.
	Quick Dialling	8 digits, 4000 entries
	Redial	32 digits
	System Speed Dialling	32 digits, 1000 entries/tenant
	One-touch Dialling—PT	32 digits, 5000 entries/system
	One-touch Dialling—PS	32 digits, 1000 entries/system
	Groups	Conference Group
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

*1. Basis of the number 5,000 (calls per day): Ex. 25 (agent) x 20 (cal/hour/agent) x 10 (hour/day)

* For the latest information, please refer to the manual.

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

	Item	Capacity
ARS	Routing Plan Table	48 entries
	Leading Number Table	16 digits, 1000 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/extern. 1520 records/system
	Outgoing Call Log—PS	100 records/extern. 640 records/system
	Incoming Call Log—PT	100 records/extern. 3040 records/system
	Incoming Call Log—PS + Incoming Call Distribution Group	100 records/extern. or group Total 2560 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	1000 records/PBX (Without SD card)/ 10000 records/PBX (With SD card)
	Hotel Operator	4
	Charge Rate Charge Denomination	7 digits including a decimal 3 currency characters/symbols
Networking	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	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
	Service Group	64 entries
Unified Messaging Ports	24 ports	
Web Maintenance Console Accounts	Users (User)	492 accounts
	Users (Administrator)	8 accounts
	Installer	1 account
	Password (all account types)	4 – 16 characters
ACD Report	Number of Call log for ACD report	300,000 ¹

Design and specifications are subject to change without notice.

MG-PBK003EN 1411TP-4

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