



System Capacity

Maximum Trunks

The PBX supports the following number of trunks.

Type	KX-NS700	With 1 KX-NS720	With 2 KX-NS720	With 3 KX-NS720
Total Number of Trunks	102	138	174	210
Legacy	38	74	110	146
BRI	16	32	48	64
PRI23	23	46	69	92
PRI30	30	60	90	120
E1	30	60	90	120
Analogue	12	24	36	48
IP	64	64	64	64
H.323	32	32	32	32
SIP	64	64	64	64

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	
	MCSLC8	
	MCSLC16	
Expansion Master Card	EXP-M	EXP-M Slot
Remote Modem	RMT	RMT Slot

Activation Keys

Component	Model No.	Maximum	
Networking	OSIG Network	1 activation key	
System Function	Call Centre Feature	1 activation key	
	ACD Report ² ; Announcement of waiting number for queuing		
IP Trunk	Expansion Capacity	SIP 64 ch H.323 32 ch	
	IP Trunks (H.323/SIP)		
	2 ch		
	4 ch		
	8 ch		
IP Telephone ³ - User Licence	IP PTs/ KX-UT Series/ IP Softphones	128 ch	
			1 ch
			5 ch
			10 ch
			20 ch
	IP PTs/ KX-UT Series	128 ch	
			Up to 4 ch
			1 ch
			5 ch
			10 ch
SIP Phones	128 ch		
		1 ch	
		5 ch	
		10 ch	
		20 ch	
Cellular Phone Extension - User Licence	Mobile Extension	416 cellular phone extensions	
			1 ch
			5 ch
			10 ch
IP-CS Channel Expansion	Channel Expansion (from 4 to 8 ch)	32 activation key	
			1 CS
			5 CS
			10 CS
			20 CS
Unified Messaging System	Feature		
	Two-way REC (Recording) Control	1 activation key	
	Message Backup	1 activation key	
	Unified Messaging Channel	2 ch	24 UM Ports
		2 ch	
		4 ch	
	User (Mailbox) Licence		
	E-mail (IMAP4) Client/ E-mail Notification	1 user	500 mailboxes
		5 users	
		10 users	
20 users			
All users			
Two-way Recording/ Two-way Transfer	1 user	416 users	
	5 users		
	10 users		
	20 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-NCS8100, 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	KX-NS700	With 1 KX-NS720	With 2 KX-NS720	With 3 KX-NS720
Extensions (DXDP¹)	166 (168)	198 (208)	230 (248)	262 (288)
Legacy (DXDP ¹)	38 (40)	70 (80)	102 (120)	134 (160)
SLT	36	68	100	132
DPT (DXDP ¹)	34 (36)	66 (76)	98 (116)	130 (156)
APT	8	16	24	32
IP	128	128	128	128
IP-PT	128	128	128	128
SIP	128	128	128	128
DSS Console	8	8	8	8
CS	40	48	56	64
DPT-CS (2 ch)	8	16	24	32
DPT-CS (8 ch)	4	8	12	16
IP-CS	32	32	32	32
PS	128	128	128	128
VM				
ESVM (ch)	2	2	2	2
Built-in UM (ch)	24	24	24	24
TVM Unit	2	2	2	2
Doorphone	2	4	6	8
Door Opener	2	4	6	8
External Sensor	2	4	6	8

¹ 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	
CA Supervisor	128 users	without CA server 4 users/ with CA server 128 users ⁴
	1 user	
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	128 users	1 activation key
	Thin Client Server Connection	
CSTA Multiplexer	Multiple CSTA Connection	4 activation key
CTI Licence		
3rd Party CTI link	CTI interface	1 activation key
Partner Licence		
Poltycs Communication Bridge		16 activation key
Poltycs CCAccounting		
Poltycs CCAccounting A.L. ⁵		
Poltycs CCAcc. Enterprise		
Poltycs CCAcc. Enterprise A.L. ⁵		
Poltycs CCView		
Poltycs CCView A.L. ⁵		
Poltycs CCView add. PBX		
Poltycs CCView add. PBX A.L. ⁵		
Poltycs Number notice (Poltycs Dialed Number Notification)		
Poltycs Number notice (Poltycs Dialed Number Notification) A.L. ⁵		
Poltycs CCRRecord SIP (4 ports)		
Poltycs CCRRecord SIP A.L. ⁵ (4 ports)		
Poltycs CA RCS-Start	1 user	Combined total for licences: 350/system
	5 users	
	10 users	
	128 users	
	1 user	
Poltycs CA RCS-Extend	5 users	Combined total for licences: 350/system
	10 users	
	128 users	
	4 users	
	8 users	
Poltycs CCRRecord Analogue	12 users	Combined total for licences: 350/system
	16 users	
	24 users	
	4 users	
	8 users	
Poltycs CCRRecord Analogue A.L.	12 users	Combined total for licences: 350/system
	16 users	
	24 users	
	4 users	
	8 users	
Poltycs CCRRecord Digital	16 users	Combined total for licences: 350/system
	24 users	
	8 users	
	16 users	
	24 users	
Poltycs CCRRecord Digital A.L.	16 users	Combined total for licences: 350/system
	24 users	
	1 port	
	2 ports	
	1 port	
Poltycs CCRRecord PRI A.L.	2 ports	Combined total for licences: 350/system
	1 user	
	5 users	
	1 user	
	5 users	
Poltycs CCView Supervisor	1 user	Combined total for licences: 350/system
	5 users	
	1 user	
	5 users	
	1 user	
Poltycs CCView Supervisor A.L. ⁵	5 users	Combined total for licences: 350/system
	1 user	
	5 users	
	1 user	
	5 users	
Poltycs CCView CRM P-up	1 user	Combined total for licences: 350/system
	5 users	
	1 user	
	5 users	
	1 user	
Poltycs CCAgent	1 user	Combined total for licences: 350/system
	5 users	
	1 user	
	5 users	
	1 user	
Poltycs CCAgent A.L. ⁵	5 users	Combined total for licences: 350/system
	1 user	
	5 users	
	1 user	
	5 users	

Specifications

		KX-NS700	KX-NS720
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: 8 ports (Level Control: -31.5 dB to +31.5 dB per 0.5 dB) External MOH port: 2 ports (Available exclusively with EPG [External Paging]) MOH: Selectable Internal/External Music Source port	—
External Paging		Maximum 2 ports (Volume Control: -15.5 dB to +15.5 dB per 0.5 dB) (Available exclusively with MOH)	—
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 335 mm (D) x 88 mm (H)	
Weight (when fully mounted)		Under 5.0 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)		
	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/extn.		
	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	8 (31 members/group for Conference Group Mode, 31 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, 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/extn. 1520 records/system		
	Outgoing Call Log—PS	100 records/extn. 640 records/system		
	Incoming Call Log—PT	100 records/extn. 3040 records/system		
	Incoming Call Log—PS + Incoming Call Distribution Group	100 records/extn. 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		
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	7 digits including a decimal		
	Charge Denomination	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		
	Group Distribution List	User: 4 groups, 40 members per group System: 20 groups, 200 members per group		
	Service Group	64 entries		
Web Maintenance Console Accounts	Unified Messaging Ports	24 ports		
	Users (User)	492 accounts		
	Users (Administrator)	8 accounts		
	Installer	1 account		
Password (all account types)	4 – 16 characters			

• This spec sheet is for the KX-NS700 Software Version 4.0 or later.
 • 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.