

## System Capacity

	Type	KX-NCP500	KX-NCP1000
Extension	<b>Total Number of Extensions (DXDP)</b>	<b>64 (68)</b>	<b>104 (108)</b>
	IP-Proprietary Telephone (IP-PT) - MPR	40	64
	SIP Telephone - MPR	32	64
	Single Line Telephone (SLT)	20	36
	Digital Proprietary Telephone (DPT) with DXDP	20 (24)	36 (40)
Trunk	<b>Total Number of Trunks</b>	<b>72</b>	<b>96</b>
	SIP Trunks - MPR	8	32
	H.323 - MPR	8	32
	PSTN Analogue Trunks	12	16
	ISDN - BRI	12 (6BRI)	16 (8BRI)
	ISDN - PRI30	60 (2PRI)	60 (2PRI)
	PSTN and ISDN	64	64
	PS	DECT Wireless Handsets	64
CS	DECT Cell Stations (DPT I/F)	4	8
	High Density DECT Cell Station	2	4

### Trunk card rules are as follows.

Total number of trunk cards accommodated in Small Slot/Regular Slot is up to 5.  
However, each PRI30 or E1 card is counted as 2 cards.

### Extension card rules are as follows.

Total number of extension cards accommodated in Small Slot is up to 1.  
Total number of extension cards accommodated in Regular Slot is up to 2 (NCP1000) / 1 (NCP500).  
DPT can be connected to NCP1000 up to 36 (without DXDP) / 40 (with DXDP).  
SLT+DPT can be connected to NCP1000 up to 44.  
DPT can be connected to NCP500 up to 20 + 4DXDP.  
SLT+DPT can be connected to NCP500 up to 24 + 4DXDP.



## Option List

	Model	Description
Main Processing Card	Built-in	IP Convergence Main Processing Card (IPCMPR)
IPCMRP Option Cards	KX-NCP1104	4-Channel VoIP DSP Card (DSP4)
	KX-TDE0110	16-Channel VoIP DSP Card (DSP16)
	KX-TDE0111	64-Channel VoIP DSP Card (DSP64)
	KX-TDA0196	Remote Card (RMT)
Activation Key	KX-NCP3102	2ch H.323 IP Gateway or 2ch SIP Trunk Activation Key
	KX-NCS3104	4ch H.323 IP Gateway or 4ch SIP Trunk Activation Key
	KX-NCP3201	1 IP softphone or 1 IP Proprietary Telephone Activation Key
	KX-NCS3208	8 IP softphone or 8 IP Proprietary Telephone Activation Key
	KX-NCP3501	1 IP Proprietary Telephone Activation Key
	KX-NCP3504	4 IP Proprietary Telephone Activation Key
	KX-NCS3508	8 IP Proprietary Telephone Activation Key
	KX-NCP3516	16 IP Proprietary Telephone Activation Key
	KX-NCP3701	1 SIP Telephone Activation Key
	KX-NCP3704	4 SIP Telephone Activation Key
	KX-NCP3708	8 SIP Telephone Activation Key
	KX-NCS3716	16 SIP Telephone Activation Key
	KX-NCS3910	Activation Key for Software Upgrade to Enhanced Version (Software Upgrade 01)
	KX-NCS2101	Communication Assistant (CA) Basic for 1 user Activation Key
	KX-NCS2105	Communication Assistant (CA) Basic for 5 users Activation Key
	KX-NCS2110	Communication Assistant (CA) Basic for 10 users Activation Key
	KX-NCS2201	Communication Assistant (CA) Pro for 1 user Activation Key
	KX-NCS2205	Communication Assistant (CA) Pro for 5 users Activation Key
	KX-NCS2210	Communication Assistant (CA) Pro for 10 users Activation Key
	KX-NCS2301	Communication Assistant (CA) ACD Monitor for 1 user Activation Key
Small Slot - Trunk Cards	KX-NCS1180	4-Port Analogue Trunk Card (LCOT4)
	KX-NCP1280	2-Port BRI Card (BRI2)
	KX-NCP1290	PRI Card (PRI 30)
Extension Card	KX-NCP1170	4-Port Digital Hybrid Extension Card (DHLC4)
Regular Slot - Extension Cards	KX-NCP1171	8-Port Digital Extension Card (DLC8)
	KX-NCP1172	16-Port Digital Extension Card (DLC16)
	KX-NCP1173	8-Port Single Line Telephone Extension Card (SLC8)
	KX-NCP1174	16-Port Single Line Telephone Extension Card (SLC16)
Trunk Card	KX-NCP1188	E-1 Trunk Card (E1)
Option Cards for OPB3	KX-NCP1190	Optional 3-Slot Base Card (OPB3)
	KX-TDA0161	4-Port Doorphone Card (DPH4)
	KX-TDA0162G	2-Port Doorphone Card (German Type)(DPH2)
	KX-TDA0164	4-Port External Input/Output Card (EIO4)
	KX-TDA0166	16-Channel Echo Canceller Card (ECHO16)
	KX-TDA0192	2-Channel Simple Voice Message Card (ESVM2)
	KX-TDA0194	4-Channel Simple Voice Message Card (ESVM4)
	Cell Stations (CSs)	KX-TDA0141
KX-TDA0158		8-Channel High-Density Cell Station Unit Using a DHLC/DLC Card (DPT I/F) for DECT Potable Station
Other	KX-T7765	Doorphone

### Compatible Panasonic Proprietary Telephones

- The PBX supports the following telephones:
- IP Proprietary Telephones (KX-NT300 series)
  - IP softphones (e.g. KX-NCS8100, NCS8101)
  - Digital Proprietary Telephones (e.g. KX-DT300, KX-T7600 series)
  - Analogue Proprietary Telephones (e.g. KX-T7700 series)
  - Portable Stations (e.g. KX-TCA355, KX-TCA256, KX-TCA155)
  - DSS consoles (e.g. KX-T7640)

## Specifications

KX-NCP500/1000		
Control Bus	Original bus (16-bit, 8 MHz, 10 megabytes per second)	
Communication Bus	H.100 bus conformity (1024 time slots)	
Power Input	100 V AC to 130 V AC; 1.0 A 200 V AC to 240 V AC; 0.5 A 50 Hz/60 Hz	
Power Consumption	KX-NCP500: 47 W, KX-NCP1000 65W	
Maximum Power Failure Tolerance	300 ms	
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)	
Trunk Loop Limit	1600 Ohm Maximum	
Operating Environment	Temperature	0 C to 40 C (32 F to 104 F)
	Humidity	10 % to 90 % (non-condensing)
Conference Call Trunk	From 10 x 3-party conference call to 4 x 8-party conference call	
Paging	Internal	Level Control: -6 dB to +3 dB in 3 dB steps
	External	1 port (Volume Control: -15 dB to +6 dB in 3 dB steps)
RJ45 Port	MNT Port	1 (for PC connection)
	LAN Port	1 (for LAN connection)
Connection Cable	Trunk	RJ45, BNC
	Extensions	RJ45
	Paging Output	1 conductor jack
	External Voice Input	1 conductor jack
	PT-interface CS	RJ45
Dimension	KX-NCP500	430 mm(W) x 86 mm(H) x 340 mm(D)
	KX-NCP1000	430 mm(W) x 128 mm(H) x 340 mm(D)
Weight (when fully mounted)	KX-NCP500	6.5kg
	KX-NCP1000	7.5kg

## System Feature Capacity

Item	KX-NCP500	KX-NCP1000	Item	KX-NCP500	KX-NCP1000
<b>System</b>			<b>ARS</b>		
Absent Message-Extension	1 x 16 characters		Routing Plan Table	16 entries	
Absent Message-System	8 x 16 characters		Leading Number Table	16 digits, 1,000 entries	
Call Park Zone	100		Leading Number Exception Table	16 digits, 200 entries	
Conference	3-8 parties per conference (32 parties total)		ARS Carrier	10	
COS	64		Itemised Billing Code	10 digits	
DID/DDI Table	32 digits, 1,000 entries		Authorisation Code	10 digits	
Extension Number	10 digits, 1 entry/extension		<b>Call Log and Message Waiting</b>		
Extension Personal Identification Number (PIN)	1-5 digits (1-4 digits for PSs, 2-4 digits for extensions which have a VM [DPT] mailbox)		Outgoing Call Log - PT	100 records/extn. 1,520 records/system	
Host PBX Access Code	10 digits, 10 entries/trunk group		Outgoing Call Log - PS	100 records/extn. 640 records/system	
Multiple Subscriber Number (MSN)	10 entries per ISDN-BRI port		Incoming Call Log - PT	100 records/extn. 3,040 records/system	
Number of the Characters of Name	20		Message Waiting - PS + Incoming	256	
Printing Message	8		Call Distribution Group	100 records/extn. or group	
Queuing Time Table	64		Incoming Call Log - PS + Incoming	Total 2,048 records/system	
Ring Tone Pattern Plan	8		Call Distribution Group	512	
Simultaneous Programmers	<ul style="list-style-type: none"> <li>• one system + 63 personal programmers</li> <li>• one manager + 63 personal programmers</li> <li>• 64 personal programmers</li> </ul>		Message Waiting - PT + SLT	512	
SMDR Call Storage	200 calls		<b>Voice Message</b>		
Special Carrier Access Code	16 digits, 20 entries		Outgoing Message (OGM)	64	
Tenant	8		OGM Total Recording Time	8 minutes (MSG4)	
Time Service Holiday	24		SVM Total Recording Time	40, 60, or 120 minutes (depending on the recording quality)	
Verification Code	4 digits, 1,000 entries		Built-in Simplified Voice Message (SVM)	125 messages	
Verification Code Personal Identification Number (PIN)	10 digits, 1,000 entries		Simplified Voice Message (optional) (ESVM)	250 messages	
<b>Dialling</b>			<b>Hospitality and Charge Management Features</b>		
Emergency Call	32 digits, 10 entries		Billing Items for Guest Rooms	4,000 records/PBX	
Hot Line	32 digits		Hotel Operator	4	
Key Pad Protocol Dial (ISDN Service Access)	32 digits		Charge Rate	7 digits including a decimal	
Personal Speed Dialling	32 digits, 100 entries/extn.		Charge Denomination	3 currency characters/symbols	
Quick Dialling	8 digits, 4,080 entries		<b>Networking</b>		
Redial	32 digits		TIE Line Routing and Modification Table	32 entries	
System Speed Dialling	32 digits, 1,000 entries/tenant		Leading Number	3 digits	
<b>Groups</b>			PBX Code	7 digits	
Broadcasting Group	8 (32 members/group)		NDSS: Monitored PBXs	8	
Call Pickup Group	64		NDSS: Registered Extensions for Monitor PBX	250	
Idle Extension Hunting Group	64 (16 extensions/group)		<b>CTI</b>		
Incoming Call Distribution Group	128 (32 extensions/group)		PC Console	8	
Paging Group	32		PC Phone	64	128
PS Ring Group	32		<b>Password</b>		
Trunk Group	64		System Password for Installer	4 - 10 characters	
VM (DPT) Group	2 groups x 12 ports (24 channels)		System Password for Administrator — for PC Programming	4 - 10 characters	
VM (DTMF) Group	2 groups x 32 channels		System Password for User — for PC Programming	4 - 10 characters	
<b>TRS/Barring</b>			System Password for Administrator — for PT Programming	4 - 10 digits	
TRS/Barring Level	7		System Password for User — for PT Programming	4 - 10 digits	
TRS/Barring Denied Code	16 digits, 100 entries/level		Manager Password	4 - 10 digits	
TRS/Barring Exception Code	16 digits, 100 entries/level		<b>Programmer Code</b>		
			Installer Level Programmer Code	4 - 16 characters	
			Administrator Level Programmer Code	4 - 16 characters	
			User Level Programmer Code	0 - 16 characters	

## Maximum Number of VoIP Channels

VoIP Codec Used	KX-NCP500			KX-NCP1000		
	DSP4	DSP16	DSP64	DSP4	DSP16	DSP64
G729	4	16	64	4	16	64
G711	16	64	128	16	64	128

## DSP Options Capacity per NCP System

Codec Transcoding	KX-NCP500			KX-NCP1000		
IP-Trunk   IP-PT or SIP Ext.	DSP4	DSP16	DSP64	DSP4	DSP16	DSP64
G711 ↔ G711	8	8	8	8	32	32
G711 ↔ G729	3	8	8	3	12	32
G729 ↔ G729	2	8	8	2	8	32