PRODUCT GUIDE AND SPECIFICATIONS

KX-NCP500 **KX-NCP1000**

PGMPR SOFTWARE FILE VERSION 5.0



SYSTEM CAPACITY TYPE AND MAXIMUM NU The PBX supports the follor	MBER OF SLOTS wing type and number of slots		
SLOT TYPE		KX-NCP500	KX-NCP1000
IPCMPR Card Slot		1	1
Regular Free Slot	_	2	3
Small Free Slot	_	3	4
	Virtual Trunk Slot	4	4
Virtual Slot	Virtual Extension Slot	4	4

The PBX supports the following number of tro	unks and extensions.		
TYPE		Maximum Number	
TOTAL NUMBER OF TRUNKS		128	
Trunk (Physical Trunk Card)		64	
Trunk (Virtual Trunk Card)		64	
	H.323 Trunks	32	
	SIP Trunks	64	
TOTAL NUMBER OF EXTENSIONS		172	
Extension (Physical Extension Card)		44	
Extension (Virtual Extension Card)		128	
	IP-PT and IP Softphone	128	
	SIP Phone	128	
The following shows the number of each terming TELEPHONE	inal equipment type supported by the PBX.	172	
	inal equipment type supported by the PBX.	172	
TELEPHONE SLT	ınal equipment type supported by the PBX.	36	
TELEPHONE SLT KX-DT300/KX-T7600 series DPT	nnal equipment type supported by the PBX.	36 40	
TELEPHONE SLT KX-DT300/KX-T7600 series DPT Other DPT	nal equipment type supported by the PBX.	36 40 10	
TELEPHONE SLT KX-07300/KX-17600 series DPT Other DPT APT	nal equipment type supported by the PBX.	36 40 10 4	
TELEPHONE SLT KX-DT300/KX-17600 series DPT Other DPT APT IP-PT'	nal equipment type supported by the PBX.	36 40 10 4 128° ²	
TELEPHONE SLT KX-DT300/KX-17600 series DPT Other DPT APT IP-PT* SIP Extension	inal equipment type supported by the PBX.	36 40 10 4 128 ² 128	
TELEPHONE SLT KX-D1300/KX-17600 series DPT Other DPT APT IP-PT" SIP Extension DSS CONSOLE	inal equipment type supported by the PBX.	36 40 10 4 128 ⁷² 128	
TELEPHONE SLT KX-DT300/KX-T7600 series DPT Other DPT APT IP-PT* SIP Extension DSS CONSOLE		36 40 10 4 128 ¹² 128 8 8	
TELEPHONE SLT KX-DT300/KX-T7600 series DPT Other DPT APT IP-PT* SIP Extension DSS CONSOLE	PT-interface CS (2-channel)	36 40 10 4 128 ⁷ 128 8 21 ¹³	
TELEPHONE SLT KX-DT300/KX-T7600 series DPT Other DPT APT IP-PT* SIP Extension DSS CONSOLE	PT-interface CS (2-channel) PT-interface CS (8-channel)	36 40 10 4 128 ⁷ 128 8 21 ¹³ 11 5	
TELEPHONE SLT KX-DT300/KX-T7600 series DPT Other DPT APT IIP-PT' SIP Extension DSS CONSOLE CS	PT-interface CS (2-channel)	36 40 10 4 128 ²⁷ 128 8 21 ¹² 11 5	
TELEPHONE SLT KX-DT300/KX-T7600 series DPT Other DPT APT IIP-PT' SIP Extension DSS CONSOLE CS PS	PT-interface CS (2-channel) PT-interface CS (8-channel)	36 40 10 4 128 ⁻⁷ 128 8 21 ⁻³ 11 5	
TELEPHONE SLT KX-DT300/KX-T7600 series DPT Other DPT APT IIP-PT ¹ SIP Extension DSS CONSOLE CS PS Voice Processing System (VPS)	PT-interface CS (2-channel) PT-interface CS (8-channel)	36 40 10 4 128 ⁻⁷ 128 8 21 ⁻³ 11 5 16 64	
TELEPHONE SLT KX-DT300/KX-T7600 series DPT Other DPT APT IP-PT* SIP Extension DSS CONSOLE CS PS Voice Processing System (VPS) Doorphone	PT-interface CS (2-channel) PT-interface CS (8-channel)	36 40 10 4 128 ¹² 128 8 21 ¹³ 11 5 16 64 2	
TELEPHONE SLI KX-D1300/KX-17600 series DPT Other DPT APT IP-PT SSI P Extension DSS CONSOLE CS PS Voice Processing System (VPS) Doorphone Door Opener	PT-interface CS (2-channel) PT-interface CS (8-channel)	36 40 10 4 128 ¹² 128 8 21 ¹³ 11 5 16 64 2 16 ⁴⁴	
TELEPHONE SUT KX-D1300/KX-17600 series DPT Other DPT APT IP-PT* SIP Extension DSS CONSOLE CS PS Voice Processing System (VPS) Doorphone	PT-interface CS (2-channel) PT-interface CS (8-channel)	36 40 10 4 128 ¹² 128 8 21 ¹³ 11 5 16 64 2	

T KX-NT400, KX-NT300 series, and KX-NT265 (software version 2.00 or later only)

OPTION LIST		Model	Description
IPCMPR 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 CODES'1		KX-NCS3102	2-Channel IP Trunk Activation Key
		KX-NCS3104	4-Channel IP Trunk Activation Key
		KX-NCS3201	1-Channel IP Softphone/IP Proprietary Telephone Activation Key
	_	KX-NCS3204	4-Channel IP Softphone/IP Proprietary Telephone Activation Key
		KX-NCS3208	8-Channel IP Softphone/IP Proprietary Telephone Activation Key
		KX-NCS3216	16-Channel IP Softphone/IP Proprietary Telephone Activation Key
		KX-NCS3501	1-Channel IP Proprietary Telephone Activation Key
		KX-NCS3504	4-Channel IP Proprietary Telephone Activation Key
		KX-NCS3508	8-Channel IP Proprietary Telephone Activation Key
		KX-NCS3516	16-Channel IP Proprietary Telephone Activation Key
		KX-NCS3701	1-Channel SIP Extension Activation Key
		KX-NCS3704	4-Channel SIP Extension Activation Key
		KX-NCS3708	8-Channel SIP Extension Activation Key
		KX-NCS3716	16-Channel SIP Extension Activation Key
		KX-NCS3910	Activation Key for Enhanced Features
		KX-NCS2010	Activation Key for CA Thin Client
		KX-NCS2020	Activation Key for CSTA Multiplexer
		KX-NCS2201	Activation Key for CA PRO for 1 User
		KX-NCS2205	Activation Key for CA PRO for 5 Users
		KX-NCS2210	Activation Key for CA PRO for 10 Users
		KX-NCS2240	Activation Key for CA PRO for 40 Users
		KX-NCS2249	Activation Key for CA PRO for 128 Users
		KX-NCS2301	Activation Key for CA ACD Monitor for 1 ICD Supervisor
		KX-NCS2401 KX-NCS2901	Activation Key for CA Operator Console 1 User
		KX-NCS2905	Activation Key for CA Network 1 User
		KX-NCS2900 KX-NCS2910	Activation Key for CA Network 5 Users Activation Key for CA Network 10 Users
			·
ACTIVATION KEY CODES'1		KX-NCS2940	Activation Key for CA Network 40 Users
		KX-NCS2949	Activation Key for CA Network 128 Users
		KX-NCS3930	Activation Key for Third Party CTI
SMALL FREE SLOT	Physical Trunk Cards	KX-NCP1280	4-Port Analogue Trunk Card (LCOT4)
		KX-NCP1280	2-Port BRI Card (BRI2)
		KX-NCP1290	PRI Card
	Physical Extension Card	KX-NCP1170	4-Port Digital Hybrid Extension Card (DHLC4)
REGULAR FREE SLOT	Physical Trunk Cards	KX-NCP1188	E-1 Trunk Card (E1)
	Physical 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)
	Other Physical Card	KX-NCP1190	Optional 3-Slot Base Card (OPB3)
OPB3	Other Physical Cards	KX-TDA0161	4-Port Doorphone Card (DPH4)
		KX-TDA0162	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-TDA0191	4-Channel Message Card (MSG4)
		KX-TDA0192	2-Channel Simplified Voice Message Card (ESVM2)
		KX-TDA0194	4-Channel Simplified Voice Message Card (ESVM4)
CELL STATIONS (CSS)	DECT	KX-TDA0155	2-Channel Cell Station Unit Using a DHLC/DLC Card (PT-interface CS) for DECT Portable Station
		KX-TDA0158	8-Channel High-density Cell Station Unit Using a DHLC/DLC Card (PT-interface CS) for DECT Portable Station
		KX-NCP0158	8-Channel IP Cell Station Unit Using a V-IPCS4 Card for DECT Portable Station
PROPRIETARY EQUIPMENT		KX-T30865	Dagb
		KX-T7765	Doorphone

¹ Note that the types of activation keys are subject to change without notice. For CA activation keys, refer to the documentation for CA.

Note: Some models will be exported to limited region. Please contact our dealer and confirm the availability of specific models in your region.

⁻² For the KX-NT400, the maximum number of extensions that can be connected to the PBX is 64.

⁻³ One 8-channel PT-interface CS or IP-CS counts as 2 CSs, up to a maximum of 32 CSs. Therefore, the maximum number of CSs is 21 (eleven 2-channel CSs + ten 8-channel CSs).

For the KX-NCP500, when using the DPH2 card, the maximum number of doorphones is 12.

Compatible Panasonic Proprietary Telephones
The PBX supports the following telephones:
- IP proprietary telephones (e.g., KX-NT300 series) - IP softphones (e.g., KX-NCS8100)- Digital proprietary telephones (e.g., KX-DT300 series)
- Analogue proprietary telephones (e.g., KX-TD300 series)
- Portable stations (e.g., KX-WT115, KX-TCA355, KX-TCA275) - DSS consoles (e.g., KX-DT390)
- Single line telephones (e.g., KX-T710)
- Incompatible Panasonic Proprietary Telephones
- The PBX does not support the following telephones:
- KX-T30000 series proprietary telephones and DSS consoles - KX-T61600 series proprietary telephones and DSS consoles
- KX-T122200 series proprietary telephones and DSS consoles - KX-T107500 DECT portable station
- KX-K1301 P proprietary telephone - KX-NT265 IP proprietary telephone [apart from software version 2.00 or later]

SYSTEM FEATURE C.	APACITY		
	Item	KX-NCP500	KX-NCP1000
SYSTEM	Absent Message—Extension	1 x 16 chara	acters
	Absent Message—System	8 x 16 chara	acters
	Call Park Zone	100	
	Conference	3-8 parties per conferenc	ce (32 parties total)
	COS	64	
	DID/DDI Table	32 digits, 1000	
	Extension number Extension Personal Identification Number (PIN)	1 – 5 dig 10 digits, 1 entry	
	Host PBX Access Code	10 digits, 10 entries	
	Multiple Subscriber Number (MSN)	10 entries per ISI	
	Number of Characters of Name	20	
	Printing message	8	
	Queuing Time Table	64	
	Ring Tone Pattern Plan	8	
	Simultaneous Programmers	• one system programmer + 6 • one manager programmer + 6 • 64 personal pro	3 personal programmers
	SMDR Call Storage	200 cal	
	Special Carrier Access Code	16 digits, 20	entries
	Tenant	8	
	Time Service Holiday	24	
	Verification Code	4 digits, 1000	
	Verification Code Personal Identification Number (PIN)	10 digits, 1000) entries
DIALLING	Emergency Call	32 digits, 10	
	Hot Line	32 digit	
	Key Pad Protocol Dial (ISDN Service Access)	32 digit	
	Personal Speed Dialling	32 digits, 100 en	
	Quick Dialling Redial	8 digits, 4080	
	System Speed Dialling	32 digit 32 digits, 1000 en	
	One-touch Dialling—PT/DSS	32 digits, 2000 ent	
	One-touch Dialling—PS	32 digits,500 enti	
GROUPS		8 (8 members/group for Co	nference Group Mode
0.000.0	Call Pickup Group	32 members/group for	Broadcast Mode)
	Idle Extension Hunting Group	64 (16 extensio	ns/nrnun)
	Incoming Call Distribution Group	128 (128 extensi	
	Paging Group	32	
	PS Ring Group	32	
	Trunk Group	64	
	VM (DPT) Group	2 groups x 12 ports	
	VM (DTMF) Group	2 groups x 32	channels
TRS/BARRING	TRS/Barring Level	7	
	TRS/Barring Denied Code	16 digits, 100 er	
	TRS/Barring Exception Code	16 digits, 100 er	itries/level
ARS	Routing Plan Table	16 entri	
	Leading Number Table Leading Number Exception Table	16 digits, 1000	
	ARS Carrier	16 digits, 200	FIITHES
	Itemised Billing Code	10 digit	İS
	Authorisation Code for Tenant	16 digit	
	Authorisation Code for Trunk Group	10 digit	
CALLLOCAND	Outgoing Call Log—PT	100 records/extn. 840	records/system
CALL LOG AND Message Waiting	Outgoing Call Log—PS	100 records/extn. 320	
	Incoming Call Log—PT	100 records/extn. 1680) records/system
	Incoming Call Log—PS + Incoming Call	100 records/ext	n. or group
	Distribution Group	Total 1536 records	s/system 192
	Message Waiting—PS + Incoming Call Distribution Group	192	
	Message Waiting—PT + SLT	512	
VOICE MESSAGE	Outgoing Message (OGM)	64	
	OGM Total Recording Time	MSG4 Card: 8 minutes; MPF	
		20 minutes (at High re MPR Card: 125 i	
	Built-in Simplified Voice Message (SVM)	ESVM2/ESVM4 Card: 250 me	ssages per card/block
	SVM Total Recording Time	20, 60, or 120 minutes (dependin	g on the recording quality)
HOSPITALITY AND CHARGE MANAGEMENT	Billing items for guest rooms	1000 record	s/PBX
FEATURES	Hotel Operator	4	
	Charge Rate	7 digits including	
	Charge Denomination	3 currency charact	ters/symbols
NETWORKING	TIE Line Routing and Modification Table	32 entri	
	Leading Number	3 digit	
	PBX Code NDCC - Manitored DDVc	7 digit:	S
	NDSS: Monitored PBXs NDSS: Registered Extensions for Monitor PBX	250	
CTI			0
СТІ	PC Console PC Phone	8 20	8 36
DIOOUE			
PASSWORD	System Password for Installer System Password for Administrator—	4 - 10 char	
	for PC Programming	4 – 10 char	acters
	System Password for User—	4 – 10 char	acters
	for PC Programming for PT Programming	4 – 10 di	gits
	System Password for User—	4 – 10 di	-
	for PT Programming Manager Password	4 - 10 di	-
PROGRAMMER CODE	Installer Level Programmer Code Administrator Level Programmer Code	4 - 16 char	
	Administrator Level Programmer Code User Level Programmer Code	4 – 16 chan	
	OSET LEVELT TOGTATITMET CODE	u - 10 Char	uu (C13



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)
Switching		Non-blocking
POWER INPUT	KX-NCP500	100 V AC to 130 V AC; 1.0 A/200 V AC to 240 V AC; 0.6 A; 50 Hz/60 Hz
	KX-NCP1000	100 V AC to 130 V AC; 1.3 A/200 V AC to 240 V AC; 0.8 A; 50 Hz/60 Hz
Power Consumption (When fully mounted)	KX-NCP500	51 W (240V:122VA, 200V:113VA, 130V:100VA, 100V: 92VA)
	KX-NCP1000	65 W (240V:142VA, 200V:134VA, 130V:119VA, 100V: 113VA)
Maximum Power Failure Tolerance*1		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 Ω maximum
OPERATING ENVIRONMENT	Temperature	0 °C to 40 °C
	Humidity	10 % to 90 % (non-condensing)
Conference Call Trunk		From 10 x 3-party conference call to 4 x 8-party conference call
Music on Hold (MOH)	_	1 port (Level Control: -6 dB to +6 dB per 3 dB)
	_	MOH1: Selectable Internal/External Music Source port
PAGING	Internal	Level Control: -6 dB to +3 dB per 3 dB
	External	1 port (Volume Control: -15 dB to +6 dB per 3 dB)
Serial Interface Port	RS-232C	1 (maximum 115.2 kbps)
RJ45 PORT	MNT Port	1 (for PC connection)
	LAN Port	1 (for LAN connection)
Extension Connection Cable		SLT
		DPT
		APT
		PT-interface CS (2-channel)
		PT-interface CS (8-channel)
		DSS Console and Add-on Key Module
DIMENSION	KX-NCP500	430 mm (W) x 88 mm (H) x 340 mm (D)
	KX-NCP1000	430 mm (W) x 130 mm (H) x 340 mm (D)
Weight (when fully mounted)	KX-NCP500	Under 7 kg
	KX-NCP1000	Under 8 kg

 $^{^{*\}mathrm{I}}$ If tolerance may be exceeded, an Uninterruptible Power Supply (UPS) is recommended.

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We expressly reserve the right to make reasonable changes to models, dimensions, colours as well as to make modifications that bring our products in line with state-of-the-art technology.

