

NCP500/1000

Command Vehicle IP Converged PBX with "Multipath"

Software Version 6.0



Panasonic ideas for life

The KX-NCP Series Network Communication Platform is perfect for today's modern Emergency Command Vehicles requiring multiple methods of connecting to the world.

In an emergency, you cannot always count on phone lines being available.

NCP lets you connect to the rest of world with such trunking options as ISDN-PRI, T1, POTS, H.323 or SIP. V-SAT and Cellular are also compatible when using analog third party interfaces.



Mix and match phone types using Digital, Analog, VoIP, Personal Cellular, Integrated Wireless or Single Line. NCP can even support Soft PC Phones!

Some of the major NCP Vehicular features include:

- Multipath Compatible – a Command Vehicle MUST-HAVE!
- Vehicle-to-Vehicle Gateway Chaining Services
- Scalable Local, State, Federal or Global NCP Clustering
- Single Point of Support provided by Panasonic.KX-TD.com
- Remotely Upgradeable to Future Software Releases
- Proprietary Cellular Phones for Communications Outside of Vehicle
- Door Phones allow Emergency Personnel to stay Safely Inside of Vehicle
- IP Phones for In-Vehicle and Off-Premise use
- Desktop Application Software

OPTIONS LIST

CATEGORY	PART NO.	KX-PID	DESCRIPTION
Main CPU	Built-in	IPCMPR	IP Converged Main Processing Card
Mandatory Card	KX-TDA0196	IRMU	Internal Remote Maintenance Unit for KX-TD.COM Maintenance & Upgrades
IPCMPR Option Cards	KX-NCP1104	DSP4	4-Channel Digital Signal Processing Card (See Note 1 Below)
	KX-TDE0110	DSP16	16-Channel Digital Signal Processing Card (See Note 1 Below)
	KX-TDE0111	DSP64	64-Channel Digital Signal Processing Card (See Note 2 Below)
Activation Keys	KX-NCS3910	KENH	Activation Key for Software Upgrade to Enhanced Version
	KX-NCS3501	KPIP1	Activation Key for 1 Proprietary IP Telephone
	KX-NCS3504	KPIP4	Activation Key for 4 Proprietary IP Telephones
	KX-NCS3508	KPIP8	Activation Key for 8 Proprietary IP Telephones
	KX-NCS3516	KSIP16	Activation Key for 16 Proprietary IP Telephones
	KX-NCS3701	KSIP1	Activation Key for 1 SIP Telephone
	KX-NCS3704	KSIP4	Activation Key for 4 SIP Telephones
	KX-NCS3708	KSIP8	Activation Key for 8 SIP Telephones
	KX-NCS3716	KSIP16	Activation Key for 16 SIP Telephones
	KX-NCS3102	KGW2	Activation Key for 2-Channel SIP Trunk or 2-Channel H.323 IP Gateway
	KX-NCS3104	KGW4	Activation Key for 4-Channel SIP Trunk or 4-Channel H.323 IP Gateway
	KX-NCS3201	KSP1	Activation Key for 1 Soft Phone or 1 Proprietary IP Telephone
	KX-NCS3204	KSP4	Activation Key for 4 Soft Phones or 4 Proprietary IP Telephones
	KX-NCS3208	KSP8	Activation Key for 8 Soft Phones or 8 Proprietary IP Telephones
	KX-NCS3216	KSP16	Activation Key for 16 Soft Phones or 16 Proprietary IP Telephones
	KX-NCS2010	KCATC1	Activation Key for Communications Assistant Thin Client - 1 User License
	KX-NCS2020	KCAMX1	Activation Key for Communications Assistant CSTA Multiplexer - 1 User License
	KX-NCS2101	KCAB1	Activation Key for Communications Assistant Basic - 1 User License
	KX-NCS2105	KCAB5	Activation Key for Communications Assistant Basic - 5 User License
	KX-NCS2110	KCAB10	Activation Key for Communications Assistant Basic - 10 User License
	KX-NCS2140	KCAB40	Activation Key for Communications Assistant Basic - 40 User License
	KX-NCS2149	KCAB128	Activation Key for Communications Assistant Basic - 128 User License
	KX-NCS2201	KCAP1	Activation Key for Communications Assistant Pro - 1 User License
	KX-NCS2205	KCAP5	Activation Key for Communications Assistant Pro - 5 User License
	KX-NCS2210	KCAP10	Activation Key for Communications Assistant Pro - 10 User License
	KX-NCS2240	KCAP40	Activation Key for Communications Assistant Pro - 40 User License
	KX-NCS2249	KCAP128	Activation Key for Communications Assistant Pro - 128 User License
	KX-NCS2301	KCAACD	Activation Key for Communications Assistant ACD Monitor - 1 User License
	KX-NCS2401	KCAOP1	Activation Key for Communications Assistant Operator Console - 1 User License
	KX-NCS2901	KCANP1	Activation Key for Communications Assistant Network Plugin - 1 User License
	KX-NCS2905	KCANP5	Activation Key for Communications Assistant Network Plugin - 5 User License
	KX-NCS2910	KCANP10	Activation Key for Communications Assistant Network Plugin - 10 User License
	KX-NCS2940	KCANP40	Activation Key for Communications Assistant Network Plugin - 40 User License
KX-NCS29128	KCANP128	Activation Key for Communications Assistant Network Plugin - 128 User License	
Small Slot Extension and Trunk Cards	KX-NCP1170	DHLC4	4-Port Digital and Analog Hybrid Extension Card
	KX-NCS1180	LCOT4	4-Port Analog Trunk Card with Caller-ID for POTS
	KX-NCP1290	PRI23	23-Channel ISDN Primary Rate Interface Card
Large Slot Extension, Trunk and Miscellaneous Cards	KX-NCP1171	DLC8	8-Port Digital Extension Card
	KX-NCP1172	DLC16	16-Port Digital Extension Card
	KX-NCP1173	SLC8	8-Port Analog Single Line Telephone Extension Card with onboard Caller-ID
	KX-NCP1174	SLC16	16-Port Analog Single Line Telephone Extension Card with onboard Caller-ID
	KX-NCP1187	DTI	24-Channel Direct T1 Interface Card
	KX-TDA0190	OPB3	Optional 3-Slot Base Card (Used to Accept Accessory Modules)
OPB3 Mounted Accessory Modules	KX-TDA0161	DPH4	4-Circuit Door Phone / Door Opener Controller Module
	KX-TDA0164	EIO4	4-Circuit External Input / External Output Sensor Module
	KX-TDA0166	ECHO16	16-Channel Echo Canceller Module
	KX-TDA0191	MSG4	4-Channel UCD/ACD/Wake-Up/DISA Message Module
	KX-TDA0194	SVM4	4-Channel Simplified Voice Message Module
Cell Stations	KX-TDA0141	CS2	2-Channel Digital Cell Station - Non-DECT - without In-Use Lamp
	KX-TDA0151	CS2L	2-Channel Digital Cell Station - Non-DECT - with In-Use Lamp
	KX-TDA0155	CS2DL	2-Channel Digital Cell Station - DECT - with In-Use Lamp
	KX-TDA0158	CS8DL	8-Channel Digital Cell Station - DECT - with In-Use Lamp
	KX-NCP0158	CS8N	8-Channel Network Cell Station - DECT - with In-Use Lamp
Door Related	KX-T30865	DPS	Door Phone Standard
	KX-T7765	DPD	Door Phone Deluxe

Note 1: DSP4 and DSP16 include Activation Keys for 4 SIP Trunks or 4 H.323 IP Gateways and Activation Keys for 8 Proprietary IP Telephones.

Note 2: DSP64 include Activation Keys for 16 SIP Trunks or 16 H.323 IP Gateways and Activation Keys for 32 Proprietary IP Telephones.

SYSTEM CAPACITY

CATAGORY	TYPE	KX-NCP500	KX-NCP1000
Extensions	Total Number of Extensions with DXDP Feature	172	172
	Total Number of Extensions w/out DXDP Feature	168	168
	Maximum Digital Proprietary Telephones with DXDP Feature (DPT)	40 ⁽¹⁾	40 ⁽¹⁾
	Maximum Digital Proprietary Telephones w/out DXDP Feature (DPT)	36	36
	Maximum Legacy Digital Proprietary Telephones	10 ⁽²⁾	10 ⁽²⁾
	Maximum Direct Station Selection/Busy Lamp Field Consoles (DSS/BLF)	8	8
	Maximum Analog Proprietary Telephones (APT)	4	4
	Maximum Analog Single Line Telephones (SLT)	36	36
	Maximum IP Proprietary Telephones ⁽³⁾ w/DSP (IP-PT)	128 ⁽⁴⁾	128 ⁽⁴⁾
	Maximum IP Telephones or Soft Telephone Apps w/DSP (SIP-EXT)	128	128
Trunks	Total Number of All Trunks	116	116
	Total Number of All Types of Non-IP Trunks (POTS/PRI/T1)	52	52
	Total Number of All Types of IP Trunks w/DSP (SIP/H.323)	64	64
	Maximum IP Trunks w/DSP (SIP)	64	64
	Maximum H.323 IP Gateways w/DSP (H.323)	32	32
	Maximum PSTN Analog Trunks (POTS)	12	16
	Maximum 23+D ISDN Primary Rate Interfaces (PRI)	46	46
	Maximum 24 Channel Digital Trunk Interfaces (T1)	48	48
Cell Phones	Maximum DECT or Non-DECT Wireless Handsets (Personal Cell Stations)	64	64
Cell Stations ⁽⁵⁾	Maximum Non-DECT Digital Cell Stations	11	11
	Maximum DECT Digital Cell Stations	11	11
	Maximum DECT High Density Digital Cell Stations	3	5
	Maximum DECT High Density IP Cell Stations	16	16
VPS ⁽⁶⁾	Maximum Voice Processing Systems	2	2
Doors	Maximum Door Phones/Door Openers (Requires DPH4's + OPB3)	16/16	16/16
I/O	Maximum External Sensors/External Relays (Requires EIO4's + OPB3)	16/16	16/16

Notes:

- (1) Digital Proprietary Telephones are those from the KX-DT300 or KX-T7600 Series.
- (2) Legacy Digital Proprietary Telephones are those from the KX-T7400 or KX-T7200 Series.
- (3) KX-NT400, KX-NT300 and KX-NT265 Software Version 2.00 or higher only.
- (4) The maximum number of extensions that can be connected to the PBX is 64 when using only KX-NT400 IP speakerphones.
- (5) DECT and Non-DECT Cell Stations and Personal Cell Phones cannot be mixed on the same KX-NCP Series PBX.
- (6) KX-TVA and KX-TVS Series Voice Processing Systems use one (1) DPT port for every two (2) VPS voice paths.

Extension Related Rules:

- The total number of small slot extension cards is 1 for both the NCP500 and NCP1000.
- The total number of large slot extension cards is 2 for both the NCP500 and NCP1000.

Trunk Related Rules:

- The total number trunk cards available using the small slots and large slots is 5, however ...
- ISDN-PRI card and T1 card are counted as 2 slots. Example, using 2 ISDN-PRI cards would use 4 of the available 5 positions, thereby leaving only one spare slot for LCOT4

The KX-NCP500 and KX-NCP1000 are models sold only by Panasonic Certified Dealers. They must be registered and require activation keys that can only be provided by a Panasonic Certified Dealer in good standing. These systems are NOT available directly from Panasonic nor will Panasonic activate them for you. Only dealers that have successfully completed the KX-NCP Technical Training course, have a valid KX-NCP certification number and meet the yearly purchase requirements outlined by Panasonic can activate these systems.

To locate a Panasonic Certified Dealer in your area or to purchase online, go to:

Panasonic-America.com.

