Office Communication Systems

OFFICE COMMUNICATION SYSTEMS
Product Lineup

Office Communication Systems

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- Some models will be available in limited countries.
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- Illustrations, displays, and components are approximate.
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Panasonic PBX Products Deliver Flexible Communication Methods to Meet a Wide Variety of Work Styles

Modern business is continually evolving and work styles are diversifying, with the promotion of telecommuting, working away from the office, and staggered commuting. Speed is vital in all business activities including decision making, customer support, and information sharing. The diverse range of Panasonic PBX products assist the building of a versatile communication environment.
With diverse business communications features, built-in applications, and a choice of fixed, mobile and advanced touch screen IP terminals, the Panasonic KX-NCP and KX-TDE Series provide a unified solution for businesses and meet their single or multi-site communication needs today as well as in the future. Since this system supports IP networks it enables the communication environment to be flexibly expanded in accordance with corporate growth.

### KX-NCP Series

![KX-NCP500](image)  
Max. Extensions: 100  
Max. Trunks: 0  
Max. Extensions: 100

![KX-NCP1000](image)  
Max. Extensions: 200  
Max. Trunks: 128  
Max. Extensions: 172

### KX-TDE Series

![KX-TDE100](image)  
Max. Extensions: 256  
Max. Trunks: 128

![KX-TDE200](image)  
Max. Extensions: 256  
Max. Trunks: 128

![KX-TDE600](image)  
Max. Extensions: 640  
Max. Trunks: 640

19-inch Rack Mountable

The flat, compact body fits neatly into a standard 19-inch rack.

19-inch Rack Mountable

The flat, compact body fits neatly into a standard 19-inch rack.

Fully equipped with TDA functions and solutions

This system inherits the easy operation of TDA and supports all of its features, while also including useful IP functions. Customers using a KX-TDA series PBX can change the main card (PCM/FXO card) to upgrade to the KX-TDE series while inheriting the TDA option cards.

Grows With You (KX-TDE600)

The KX-TDE600’s modular design lets you expand the system as your needs evolve. The Basic Shelf provides a maximum of 368 ports (432 ports with DXDP*), and the optional Expansion Shelf provides a maximum of 992 ports (1152 ports with DXDP). Plus with the KX-TDE600’s free slot architecture, you can easily insert expansion cards and access new features as well as expand your capabilities. This expandability means you can enhance system capabilities and features to meet your changing needs, without having to purchase a new system.

Flexible Expansion by Adding Activation Keys

By installing an optional activation key, the number of IP terminals that can be contained on an MPR card can be expanded to 128 and the number that can be contained on an SIP trunk card can be expanded to 64. This enables flexible expansion since it is not necessary to add new dedicated optional cards for terminals and phone lines.

Multi-site Networking

The KX-NCP/TDE leverage the latest digital networking, Voice over IP (VoIP) and SIP technologies to cost effectively handle intra-office, multi-site and long distance communications over converged voice and data networks. Up to 8 KX-NCP/TDE systems can be networked and centrally managed without the need for a server.

SIP Networking for Low Cost Communication

Using the built-in SIP trunking interface, businesses now have the ability to connect the KX-NCP/TDE Communication Systems to the growing list of SIP based Internet Telephony Service Providers (STISP) to achieve low-cost VoIP calls over managed broadband IP networks.

Cellular Phone Integration

Cellular phones can be integrated into PBX that allows incoming calls to ring both the desk phone and the cellular phone simultaneously, so users can pick up calls on either phone, thereby enabling single number access and increasing changeability.

Conference Solution

This function enables conference calls to be made from cellular phones, simply by calling a phone number for a contact group that contains up to 8 people (including caller). Since it is not necessary to make a contract for a conference call service with a telephone carrier, this leads to reduced running costs.

Server-less System for Office Work Assistance Application

A built-in application server provides desktop solutions and enables simple installation.

- Built-in Communication Assistant Basic Express (Unified communication tool)
- Built-in Simplified Voice Mail (2 channels)
- Built-in Small Call Centre

Remote Administration

With KX-NCP/TDE systems, administrators can remotely manage any deployment scenario whether a stand-alone system or a networked multi-site system connected over an IP network.

**Various IP Proprietary Telephones Available**

- **IP Proprietary Telephones**  
  For information on other terminals and optional products, please refer to page 7.

- **SIP Telephone**
  - KX-HGT100
    - 2-line, 16-character LCD
    - 2-ported Ethernet Port
    - Power over Ethernet (PoE)
    - Hold, Transfer, Mute, Speakerphone
    - Voice mail waiting indicator
  - KX-NT700
    - Full duplex acoustic echo-canceller
    - Conference recording with SD Memory Card
    - Speech speed conversion
    - Conference manager application for enabling various conference calls
    - Self-labelling keys with SD Memory Card
    - Voice mail waiting indicator

- **SIP Telephone**
  - KX-N700
    - 2-line, 16-character LCD
    - 2-ported Ethernet Port
    - Power over Ethernet (PoE)
    - Hold, Transfer, Mute, Speakerphone
    - Voice mail waiting indicator

- **IP Conferencing Phone**
  - KX-NT700
    - Full duplex acoustic echo-canceller
    - Conference recording with SD Memory Card
    - Speech speed conversion
    - Conference manager application for enabling various conference calls
    - Self-labelling keys with SD Memory Card
    - Voice mail waiting indicator

**Phone**

- **Phone**
  - KX-NT700
    - 2-line, 16-character LCD
    - 2-ported Ethernet Port
    - Power over Ethernet (PoE)
    - Hold, Transfer, Mute, Speakerphone
    - Voice mail waiting indicator

*For details on specifications, please refer to page 10 and 10-16.*
Hybrid IP PBX Systems

The Panasonic IP-Enabled KX-TDA series business telephony solution combines advantages of traditional telecommunications together with the convergence of IP technology – offering advanced features and flexibility to handle your company communication needs. These models can be easily upgraded to high-end KX-TDE series models.

**KX-TDA Series**

**KX-TDA30**
Max. 32 CO Lines/64 Extensions (32 Extensions with DIOF) or Max. 32 CO Lines/16 Extensions (16 Extensions with DIOF)
-add extension 8-24 or 31 can be added using a stacking kit

**KX-TDA200**
Max. 128 CO Lines
(add 128 Channels with LCOT16 x 8/16 Generation B and MEC Card)

**KX-TDA200D**
Max. 112 CO Lines/Max. 112 Channels with LCOT16 x 16 Generation B and MEC Card

**KX-TDA600/620**
Max. 512 CO Lines (without DIOF) or Max. 1024 Channel with LCOT16 x 16 Generation B and MEC Card

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**Easy Migration to VoIP (IP/IP Telephony)**

Designed to support convergence via modular architecture, this IP-enabled system facilitates a smooth migration towards VoIP, allowing voice and data communication to function harmoniously within the same network, assuring additional flexibility in the future.

**Voice Mail Integration**

Optional Cards (ESVM) provide added message recording and outgoing message handling capabilities that help ensure calls from your customers routed through properly and are always answered or processed gracefully.

**Multi-Cell Wireless Integration**

Extension line phones can be made wireless. The multi-cell DECT Wireless System enables the office building to become a single call zone. Since calls can be made while working away from the desk, this contributes to improved productivity.

**Cost-effective Performance**

The systems include various functions to support cost reductions.

- Voice over Internet Protocol (H.323)
- ISDN capability (BRI/PRI)
- QSIG digital networking allows basic call handling, closed numbering routing, and CLIP/COLP/CLIR/COLR
- Automatic Route Selection (ARS)/Toll Restriction Services (TRS)
- Reliable networking via T1/E1, E&M

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Terminal Line-Up

With Panasonic’s KX-NCP, TDE, and TDA series, businesses can choose from any type of telephone terminal that fits their needs. All models include a digital speakerphone function, and the IP Proprietary Telephone (KX-NT300 Series) also includes Power over Ethernet (PoE) and two Ethernet ports (100 Base-T).

**IP Proprietary Telephones**

- **KX-NT346**
  - 6-Line Backlit LCD Display, 24 Flexible CO Buttons
  - Option: KX-DT390 or KX-NT305, KX-NT307

- **KX-NT343**
  - 3-Line Backlit LCD Display, 24 Flexible CO Buttons
  - Option: KX-DT390 or KX-NT305, KX-NT307

- **KX-NT321**
  - 1-Line LCD Display, 8 Flexible CO Buttons
  - Option: KX-DT390

**Digital Proprietary Telephones**

- **KX-DT346**
  - 6-Line Backlit LCD Display, 24 Flexible CO Buttons

- **KX-DT343**
  - 3-Line Backlit LCD Display, 24 Flexible CO Buttons

- **KX-DT321**
  - 1-Line LCD Display, 8 Flexible CO Buttons

**Options**

- **KX-DT390**
  - For KX-DT346/343/333/321/301 for KX-DT301/307

- **KX-DT301**
  - For KX-DT301/307

**Bluetooth® Module**

Mounting the KX-NT307 lets you connect a commercially available Bluetooth headset for hands-free communication (answering calls/ending calls/voice communication).

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*For details on specifications, please refer to page 15-19.*
Multi Cell DECT Wireless System

Whether you work in an office, a factory, a warehouse or other large facility, the Multi-Cell DECT wireless System keeps you in constant touch with colleagues and customers even when you are untethered and moving within the work environment.

**Wireless Solution**

**Easy-to-Use wireless single line telephone with noise reduction function**

**Utilization of PBX functions**

Wide array of functions useful for business

Easy to view colour LCD

**Tough Enough to Stand up to Harsh Conditions**

Office Communication Systems
As personal computers have become an essential business tool, Panasonic has developed the KX-NCP and TDE series to seamlessly integrate with advanced desktop productivity applications for improved business efficiency. Communication Assistant is a unified communication productivity software suite that provides office staff with business tools to improve user and team productivity.

Communication Assistant Basic-Express/Pro For Personal Productivity
Communication Assistant productivity software is a highly intuitive PC based application suite that blends powerful point and click telephony together with screen based presence, availability and variety of collaboration tools to simplify and enhance real-time communications for business telephony users. Designed for easy installation and maintenance, Communication Assistant can be deployed without the need of any additional 3rd party server, making it an ideal solution for small to medium size businesses with limited IT knowledge and staff.

Point and Click Unified Communications
You can easily make calls using a customisable contact list that is displayed on your PC, and search for a desired contact simply and quickly. You can also see the phone status, PC status, and the absent message of your extensions from the contact list before you make a call.

Voice Mail Assistant (VMA)
Companies using the optional advanced KX-TVM Voice Messaging solution can allow Communication Assistant users to visually manage their voice mails with Voice Mail Assistant. It can be launched directly from Communication Assistant via the Message icon.

IP Softphone
IP Softphone module allows road warriors, sales and support staff, or any other power user to use their computer as an IP Phone for easy access to unified communications. The user simply needs to connect to the corporate IP network over a secure managed broadband connection to enable the IP Softphone.

Integration with Microsoft® Outlook®
Communication Assistant seamlessly integrates with Microsoft® Outlook® allowing users to easily dial contact phone numbers and receive incoming call pop-up alerts.

Multi site Communication
From a branch office you can check the presence of people in charge at your company’s head office through a network which connects the separate hubs. A single CA server on an IP network can be shared between multiple offices (a maximum of 8 PBXs, 4 recommended).

Network Camera Integration
Panasonic Network Cameras can also be integrated, allowing users to answer a Doorphone and open the door after viewing the Network Camera video feed on screen.

Integrating with Business Applications
The KX-NCP and TDE series support Computer Telephony Integration (CTI) enabling telephony and computers to work in sync thus providing powerful PC-based productivity tools. The system supports IP based CTI integration via industry standard TAPI/CSTA.

Communication Assistant Operator Console For Operator or Receptionist
You can manage and redirect multiple calls simultaneously. Call parking and extension management features are available for managing a large volume of call traffic. Parked calls are put on hold and pooled into a common parking zone, and can be retrieved by any extension user. You can also easily forward calls using the drag and drop function displayed on your PC.

Communication Assistant Operator Supervisor For Team or Executive User
The supervisor can monitor each agent’s phone status and also remotely log-in to a currently logged out agent’s extension, or log-out an agent phone with simple mouse operation using CA Supervisor. CA Supervisor can also monitor various important call centre statistics.

Communication Assistant (CA Version 3) Specification

<table>
<thead>
<tr>
<th></th>
<th>CA Basic Express</th>
<th>CA Pro</th>
<th>CA Operator Console</th>
<th>CA Supervisor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum Number of Users</td>
<td>240 (PBX Only)</td>
<td>240 (With CA Server)</td>
<td>1022</td>
<td>1022</td>
</tr>
<tr>
<td>KX-NCP500/1000 Built-In Licence</td>
<td>5 (free additional licence)</td>
<td>10 (free additional licence)</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>KX-TDE100/200 Built-In Licence</td>
<td>10 (free additional licence)</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>KX-TDE600 Built-In Licence</td>
<td>20 (free additional licence)</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Call Contact</td>
<td>N/A</td>
<td>2000</td>
<td>1022</td>
<td>128</td>
</tr>
<tr>
<td>Call History</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Multi site communication (Networking)</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>CRM Integration by TAPI</td>
<td>N/A</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>No-Client Support</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
</tbody>
</table>

010 Office Communication Systems
Panasonic’s messaging solutions give you multilingual capabilities and efficient call handling, so you can give customers the service and support they deserve. You also benefit from a system that takes messages automatically and keeps you in touch 24 hours a day. And, of course, you’ll love the cost savings. Panasonic’s messaging solutions mean more convenience for you and more satisfaction for your customers.

**Centralised Mail Voice**

Vocational resources can be shared across the network. This provides centralised mailbox access, Message Waiting indication, Direct mailbox access and Auto attendant service.

**Custom Service**

Using Custom Service, you can give callers 1-digit access to department extensions, special announcements, and other information. The caller listens to the first Custom Service Menu, then selects from the options available.

**Voice Mail (VaM) Menu on the LCD**

For easier operation, Voice Mail menus and the number of new messages received can be displayed on the LCD screens of Proprietary Telephones. Users can retrieve messages or specify parameters.

**Useful Panasonic Functions**

**Live Call Screening (LCS)**

When the LCS mode is activated, you can monitor incoming messages and decide whether or not to take the call. This handy feature is similar to having a telephone answering machine right at your desk.

**Two-Way Recording**

This feature allows an extension user to record a conversation in a mailbox by simply pressing the Two-Way Record function key. A variation of this feature is Two-Way Transfer, which permits the extension user to record a conversation in another Subscriber’s mailbox. This is ideal for firms that want their receptionists to personally record messages from callers.

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**Voice Mail Solution**

Calling the office to check your messages is finally a thing of the past.

Your messages can easily be forwarded to other parties, and keep backup copies of those messages on your PC. You can retrieve messages or specify parameters.

When you’ve received new messages; you can log in to your mailbox remotely and listen to your messages. Better yet, have the VPS send those messages to your PC. You can easily forward them by e-mail to other parties, and keep backup copies of those messages on your PC.

Caling the office to check your messages is finally a thing of the past.

**Voice Mail (VaM) Menu on the LCD**

For easier operation, Voice Mail menus and the number of new messages received can be displayed on the LCD screens of Proprietary Telephones. Users can retrieve messages or specify parameters.

**Voice Mail (VaM) Menu on the LCD**

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**Useful Panasonic Functions**

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**Panasonic’s analogue telephone system has taken telephone systems for small to mid-sized companies a giant leap forward, offering features seldom available in this category. Its easy upgradability reduces the cost of expansion, Caller ID increases your efficiency, and voice-processing integration improves productivity.**

**Built-in Voice Message (BV)***

Customise your mailbox by recording your own greeting messages that are played when you can’t answer your phone. Your callers can record their messages directly into your personal mailbox. Call Centers and Workgroups can use the common message area for recording caller messages that can be played back later by an operator

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**Panasonic’s messaging solutions give you multilingual capabilities and efficient call handling, so you can give customers the service and support they deserve. You also benefit from a system that takes messages automatically and keeps you in touch 24 hours a day. And, of course, you’ll love the cost savings. Panasonic’s messaging solutions mean more convenience for you and more satisfaction for your customers.**
### Maximum Terminal Equipment

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

<table>
<thead>
<tr>
<th>Terminal Equipment Type</th>
<th>KX-NCP500</th>
<th>KX-NCP1000</th>
</tr>
</thead>
<tbody>
<tr>
<td>Terminal Equipment Type</td>
<td>KX-TDE100</td>
<td>KX-TDE200</td>
</tr>
<tr>
<td>Maximum Terminal Equipment</td>
<td>KX-TDE600</td>
<td>KX-TDE400</td>
</tr>
<tr>
<td>Terminal Equipment Type</td>
<td>KX-TDA100</td>
<td>KX-TDA100D</td>
</tr>
<tr>
<td>Maximum Terminal Equipment</td>
<td>KX-TDA200</td>
<td>KX-TDA200D</td>
</tr>
<tr>
<td>Terminal Equipment Type</td>
<td>KX-TDA400</td>
<td>KX-TDA400D</td>
</tr>
</tbody>
</table>

#### KX-NCP500 (PBMPR Version 4.1)

- **Maximum Number of Trunks and Extensions**
  - The PBX supports the following number of trunks and extensions.

<table>
<thead>
<tr>
<th>Maximum Terminal Equipment</th>
<th>KX-NCP1000</th>
</tr>
</thead>
<tbody>
<tr>
<td>Terminal Equipment Type</td>
<td>128</td>
</tr>
<tr>
<td>Trunk on MPR card</td>
<td>64</td>
</tr>
<tr>
<td>External Sensor</td>
<td>16</td>
</tr>
<tr>
<td>Door Opener</td>
<td>16</td>
</tr>
<tr>
<td>Telephone</td>
<td>256</td>
</tr>
<tr>
<td>Total Number of Trunks</td>
<td>128</td>
</tr>
<tr>
<td>Total Number of Extensions</td>
<td>128</td>
</tr>
</tbody>
</table>

#### KX-NCP1000 (PBMPR Version 4.1)

- **Maximum Number of Trunks and Extensions**
  - The PBX supports the following number of trunks and extensions.

<table>
<thead>
<tr>
<th>Maximum Terminal Equipment</th>
<th>KX-NCP1000</th>
</tr>
</thead>
<tbody>
<tr>
<td>Terminal Equipment Type</td>
<td>128</td>
</tr>
<tr>
<td>Trunk on MPR card</td>
<td>64</td>
</tr>
<tr>
<td>External Sensor</td>
<td>16</td>
</tr>
<tr>
<td>Door Opener</td>
<td>16</td>
</tr>
<tr>
<td>Telephone</td>
<td>256</td>
</tr>
<tr>
<td>Total Number of Trunks</td>
<td>128</td>
</tr>
<tr>
<td>Total Number of Extensions</td>
<td>128</td>
</tr>
</tbody>
</table>

#### KX-TDE100 (PMMPR Version 4.1)

- **Max 124 channels with PRI30 x 2 and LCOT16 x 4**

#### KX-TDE200 (PMMPR Version 4.1)

- **Max 128 channels with LCOT16 x 8**

#### KX-TDE600 (PMMPR Version 4.1)

- **For the KX-NCP500, the maximum number of extensions that can be connected to the PBX is 64.**
- **For the KX-NCP1000, the maximum number of extensions that can be connected to the PBX is 64.**
- **Only a single VPS can be connected to one optional service card.**
- **This number includes all ports of SLC cards, regardless of whether an SLT is connected or not.**
- **The maximum number of items of terminal equipment that can be supported by the PBX is 64.**
- **Depending on the type and total number of items of equipment to be connected, the MEC card may be required.**

### Maximum Terminal Equipment

The following number of items of terminal equipment can be supported by the PBX.

<table>
<thead>
<tr>
<th>Terminal Equipment Type</th>
<th>KX-TDE100</th>
<th>KX-TDE200</th>
<th>KX-TDE600</th>
</tr>
</thead>
<tbody>
<tr>
<td>Telephone</td>
<td>256</td>
<td>256</td>
<td>368</td>
</tr>
<tr>
<td>Voice Processing System</td>
<td>2</td>
<td>2</td>
<td>8</td>
</tr>
<tr>
<td>External Relay</td>
<td>16</td>
<td>16</td>
<td>32</td>
</tr>
<tr>
<td>Door Opener</td>
<td>16</td>
<td>16</td>
<td>32</td>
</tr>
<tr>
<td>Total Number of Trunks</td>
<td>128</td>
<td>128</td>
<td>224</td>
</tr>
<tr>
<td>Total Number of Extensions</td>
<td>156</td>
<td>172</td>
<td>156</td>
</tr>
</tbody>
</table>

### KX-TDA100 (PMMPR Version 5.0)

- **Max 124 channels with PRI30 x 2 and LCOT16 x 4**

### KX-TDA100D (PMMPR Version 5.1)

- **Max 128 channels with LCOT16 x 8**

### KX-TDA200 (PLMPR Version 5.0)

- **A maximum of 4 ports (8 channels) of a single VPS can be connected to the PBX.**

### KX-TDA30 (PSMPR Version 5.0)

- **Max 124 channels with PRI30 x 2 and LCOT16 x 4**

### Maximum Number of Trunks

The Hybrid IP-PBX supports the following number of trunks.

<table>
<thead>
<tr>
<th>Terminal Equipment Type</th>
<th>Type</th>
<th>Without Additional AC Adaptor</th>
<th>With Additional AC Adaptor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Terminal Equipment Type</td>
<td></td>
<td>Total 8</td>
<td>Total 16</td>
</tr>
<tr>
<td>Terminal Equipment Type</td>
<td></td>
<td>Total 4</td>
<td>Total 8</td>
</tr>
<tr>
<td>Terminal Equipment Type</td>
<td></td>
<td>Total 2</td>
<td>Total 4</td>
</tr>
<tr>
<td>Terminal Equipment Type</td>
<td></td>
<td>Total 1</td>
<td>Total 2</td>
</tr>
<tr>
<td>Terminal Equipment Type</td>
<td></td>
<td>Total 1</td>
<td>Total 2</td>
</tr>
<tr>
<td>Terminal Equipment Type</td>
<td></td>
<td>Total 1</td>
<td>Total 2</td>
</tr>
<tr>
<td>Terminal Equipment Type</td>
<td></td>
<td>Total 1</td>
<td>Total 2</td>
</tr>
<tr>
<td>Terminal Equipment Type</td>
<td></td>
<td>Total 1</td>
<td>Total 2</td>
</tr>
<tr>
<td>Terminal Equipment Type</td>
<td></td>
<td>Total 1</td>
<td>Total 2</td>
</tr>
</tbody>
</table>

### Maximum Terminal Equipment

- **For the KX-NCP500, the maximum number of extensions that can be connected to the PBX is 64.**
- **For the KX-NCP1000, the maximum number of extensions that can be connected to the PBX is 64.**
- **The maximum number of items of terminal equipment that can be supported by the PBX is 64.**
- **Depending on the type and total number of items of equipment to be connected, the MEC card may be required.**
- **The number of items of terminal equipment that can be connected to the PBX depends on the type and total number of items of equipment to be connected.**
- **In a system of a single VPS, at least one of a type of terminal equipment can be connected to the PBX.**

### System Capacity

<table>
<thead>
<tr>
<th>Terminal Equipment Type</th>
<th>KX-NCP500</th>
<th>KX-NCP1000</th>
</tr>
</thead>
<tbody>
<tr>
<td>Terminal Equipment Type</td>
<td>KX-TDE100</td>
<td>KX-TDE200</td>
</tr>
<tr>
<td>Maximum Terminal Equipment</td>
<td>KX-TDE600</td>
<td>KX-TDE400</td>
</tr>
<tr>
<td>Terminal Equipment Type</td>
<td>KX-TDA100</td>
<td>KX-TDA100D</td>
</tr>
<tr>
<td>Maximum Terminal Equipment</td>
<td>KX-TDA200</td>
<td>KX-TDA200D</td>
</tr>
<tr>
<td>Terminal Equipment Type</td>
<td>KX-TDA400</td>
<td>KX-TDA400D</td>
</tr>
</tbody>
</table>

### KX-TDE100 (PMMPR Version 4.1)

- **Max 124 channels with PRI30 x 2 and LCOT16 x 4**

### KX-TDE200 (PMMPR Version 4.1)

- **Max 128 channels with LCOT16 x 8**

### KX-TDE600 (PMMPR Version 4.1)

- **Max 128 channels with LCOT16 x 8**

### Maximum Number of Trunks

The Hybrid IP-PBX supports the following number of trunks.

<table>
<thead>
<tr>
<th>Terminal Equipment Type</th>
<th>KX-TDE100</th>
<th>KX-TDE200</th>
<th>KX-TDE600</th>
</tr>
</thead>
<tbody>
<tr>
<td>Terminal Equipment Type</td>
<td>KX-TDA100</td>
<td>KX-TDA100D</td>
<td></td>
</tr>
<tr>
<td>Maximum Terminal Equipment</td>
<td>KX-TDA200</td>
<td>KX-TDA200D</td>
<td></td>
</tr>
<tr>
<td>Terminal Equipment Type</td>
<td>KX-TDA400</td>
<td>KX-TDA400D</td>
<td></td>
</tr>
</tbody>
</table>

### Maximum Terminal Equipment

The following number of items of terminal equipment can be supported by the PBX.

<table>
<thead>
<tr>
<th>Terminal Equipment Type</th>
<th>KX-TDE100</th>
<th>KX-TDE200</th>
<th>KX-TDE600</th>
</tr>
</thead>
<tbody>
<tr>
<td>Terminal Equipment Type</td>
<td>KX-TDA100</td>
<td>KX-TDA100D</td>
<td></td>
</tr>
<tr>
<td>Maximum Terminal Equipment</td>
<td>KX-TDA200</td>
<td>KX-TDA200D</td>
<td></td>
</tr>
<tr>
<td>Terminal Equipment Type</td>
<td>KX-TDA400</td>
<td>KX-TDA400D</td>
<td></td>
</tr>
</tbody>
</table>

### KX-TDA30 (PSMPR Version 5.0)

- **Max 124 channels with PRI30 x 2 and LCOT16 x 4**

### Maximum Number of Trunks

The Hybrid IP-PBX supports the following number of trunks.

<table>
<thead>
<tr>
<th>Terminal Equipment Type</th>
<th>Type</th>
<th>Without Additional AC Adaptor</th>
<th>With Additional AC Adaptor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Terminal Equipment Type</td>
<td></td>
<td>Total 8</td>
<td>Total 16</td>
</tr>
<tr>
<td>Terminal Equipment Type</td>
<td></td>
<td>Total 4</td>
<td>Total 8</td>
</tr>
<tr>
<td>Terminal Equipment Type</td>
<td></td>
<td>Total 2</td>
<td>Total 4</td>
</tr>
<tr>
<td>Terminal Equipment Type</td>
<td></td>
<td>Total 1</td>
<td>Total 2</td>
</tr>
<tr>
<td>Terminal Equipment Type</td>
<td></td>
<td>Total 1</td>
<td>Total 2</td>
</tr>
<tr>
<td>Terminal Equipment Type</td>
<td></td>
<td>Total 1</td>
<td>Total 2</td>
</tr>
<tr>
<td>Terminal Equipment Type</td>
<td></td>
<td>Total 1</td>
<td>Total 2</td>
</tr>
<tr>
<td>Terminal Equipment Type</td>
<td></td>
<td>Total 1</td>
<td>Total 2</td>
</tr>
</tbody>
</table>

### Maximum Terminal Equipment

- **For the KX-NCP500, the maximum number of extensions that can be connected to the PBX is 64.**
- **For the KX-NCP1000, the maximum number of extensions that can be connected to the PBX is 64.**
- **For the KX-NCP500, the maximum number of extensions that can be connected to the PBX is 64.**
- **For the KX-NCP1000, the maximum number of extensions that can be connected to the PBX is 64.**
- **Only a single VPS can be connected to one optional service card.**
- **The number of items of terminal equipment that can be connected to the PBX depends on the type and total number of items of equipment to be connected.**
- **In a system of a single VPS, at least one of a type of terminal equipment can be connected to the PBX.**
### Multi Cell DECT Wireless Systems

#### Maximum Cell Stations and Portable Stations

<table>
<thead>
<tr>
<th>Type</th>
<th>Model No.</th>
<th>KX-NCP500</th>
<th>KX-NCP1000</th>
<th>KX-TDA500</th>
<th>KX-TDA1000</th>
<th>KX-TDA1500</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cell Stations</td>
<td>KX-NCP500-CA</td>
<td>50</td>
<td>50</td>
<td>50</td>
<td>50</td>
<td>50</td>
</tr>
<tr>
<td></td>
<td>KX-NCP1000-CA</td>
<td>100</td>
<td>100</td>
<td>100</td>
<td>100</td>
<td>100</td>
</tr>
<tr>
<td></td>
<td>KX-TDA500-CA</td>
<td>50</td>
<td>50</td>
<td>50</td>
<td>50</td>
<td>50</td>
</tr>
<tr>
<td></td>
<td>KX-TDA1000-CA</td>
<td>100</td>
<td>100</td>
<td>100</td>
<td>100</td>
<td>100</td>
</tr>
<tr>
<td></td>
<td>KX-TDA1500-CA</td>
<td>150</td>
<td>150</td>
<td>150</td>
<td>150</td>
<td>150</td>
</tr>
</tbody>
</table>

#### PBX Requirement

- **PBX Requirement**
- **Maximum Cell Stations and Portable Stations**
- **Multi Cell DECT Wireless Systems**
- **KX-NCS3204**
  - 4-Channel IP Softphone/IP Proprietary Telephone
- **KX-NCS3201**
  - 1-Channel IP Softphone/IP Proprietary Telephone
- **KX-NCS2949 Activation Key for CA Network**
  - 128 user
- **KX-NCS2940 Activation Key for CA Network**
  - 40 user
- **KX-NCS2910 Activation Key for CA Network**
  - 10 user
- **KX-NCS2901 Activation Key for CA Network**
  - 1 user
- **KX-NCS2301 Activation Key for CA ACD Monitor for 1 ICD Supervisor**
- **KX-NCS2210 Activation Key for CA Pro for 10 Users**
- **KX-NCS2205 Activation Key for CA Pro for 5 Users**
- **KX-NCS2010 Activation Key for CA Thin Client**
- **KX-NCP1190 Optional 3-Slot Base Card OPB3**
- **KX-NCP1280 2-Port BRI Card BRI2**
- **KX-NCP1174 16-Port Single Line Telephone Extension Card SLC16**
- **KX-NCP1180 4-Port Analogue Trunk Card LCOT4**
- **KX-NCP1172 16-Port Digital Extension Card DLC16**
- **KX-NCP1104**
- **KX-A229 L-type Back-up Battery Cable**

#### Optional Accessories for KX-NCP Series, TDE Series & TDA Series

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Description</th>
<th>KX-NCP500</th>
<th>KX-NCP1000</th>
<th>KX-TDA500</th>
<th>KX-TDA1000</th>
<th>KX-TDA1500</th>
</tr>
</thead>
<tbody>
<tr>
<td>KX-NCP500</td>
<td>4ch, CS/IF</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>KX-NCP1000</td>
<td>8ch, LAN/IF</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>KX-TDA500</td>
<td>7</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>KX-TDA1000</td>
<td>11</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>KX-TDA1500</td>
<td>32</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>KX-TDA30</td>
<td>32</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>KX-TDE600</td>
<td>26</td>
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<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>KX-TDE100/200</td>
<td>128</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
</tr>
</tbody>
</table>

Note: Some cards will be required to be tested carefully. Please contact our dealer to confirm the availability of specific cards in your country.