



KX-TDE Series
Converged IP
Communications Platform

Enhanced Communications Solutions

The intelligent, versatile communications solution

A growing online retailer, a busy hospital, a growing restaurant chain, a prestigious university... What's the common ingredient shared by successful organizations?

The answer: A powerful and versatile communications system that instantly and cost-effectively links employees to customers and each other, no matter where they're located.

The Panasonic KX-TDE Communications Platform

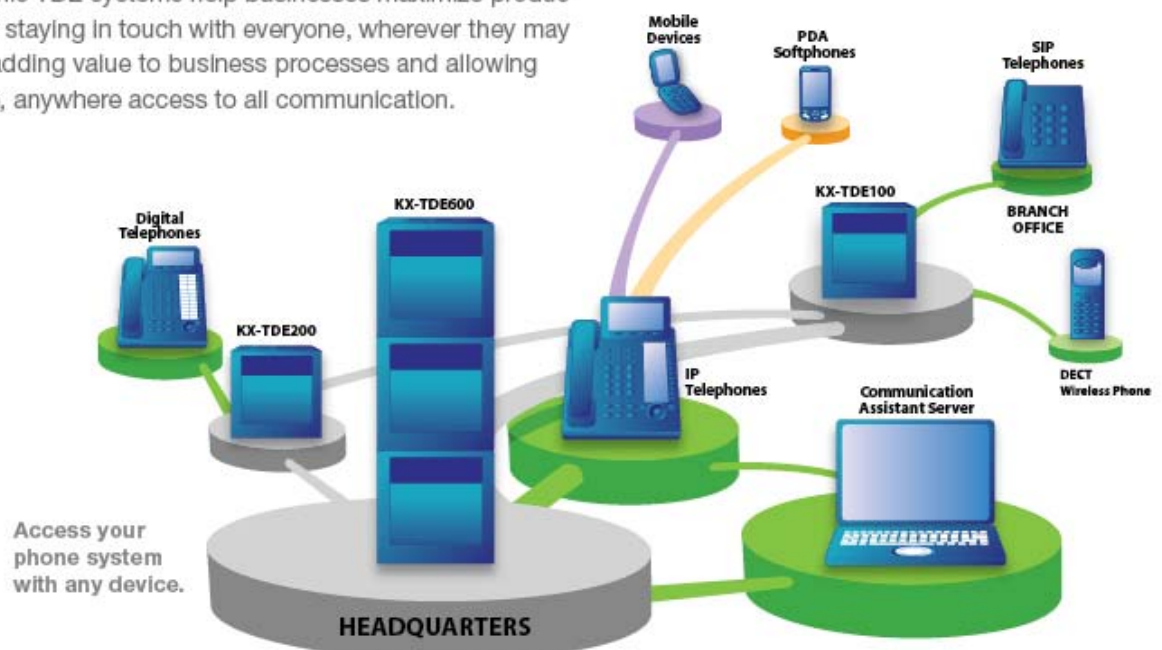
Is a robust, flexible communications system designed to offer incredible versatility for structuring your company's communications network. Now you can build a cost-effective decentralized business tailored to meet today's demanding business needs. The KX-TDE is engineered with features that complement today's decentralized, mobile business environment including:

- State-of-the-art wireless capability. Stay in touch with employees that are constantly on the move or away from their desks.
- Networking capability using advanced IP technology, ISDN, or basic T1 services. Perfect for business with multiple locations.
- Centralized voice mail support. Service all locations within the extended voice mail network and view the status of extensions in other locations.

Anytime, Anywhere Communications

No longer bound by the desk-centered work environment, businesses are now leveraging the power of "virtual offices" which let employees take the communications resources of the home office on the road—whether they're at home, the airport or a branch office in another country. In such a dynamic, decentralized environment, it's essential that businesses communicate effectively, anytime, anywhere.

Panasonic TDE systems help businesses maximize productivity by staying in touch with everyone, wherever they may be, by adding value to business processes and allowing anytime, anywhere access to all communication.





Grows With You

Got big plans for your business but aren't ready to commit to big equipment? The TDE's built-in expansion capability protects your investment by giving you the flexibility to start small and then add on in step with your company's growth—all without the risk of getting saddled with obsolete equipment.

Many Ways to Expand

The TDE is a system that will serve the growing needs of your company for years to come.

- The TDE allows you to add cards to accommodate additional extensions, COs or features, or you can activate the system's built-in virtual IP ports by adding licenses.
- The TDE's modular design lets you expand quickly and seamlessly with the use of expansion shelves—up to a maximum of 640 CO lines and more than 1,000 extensions for even the largest, enterprise applications.
- TDE systems can be networked together up to 16 sites to seamlessly link all your business communications.

KX-TDE Expansion Shelf



Base Unit



Base Unit +1
Expansion Shelf



Base Unit +2
Expansion Shelves



Base Unit +3
Expansion Shelves

Powerful, Versatile Connectivity

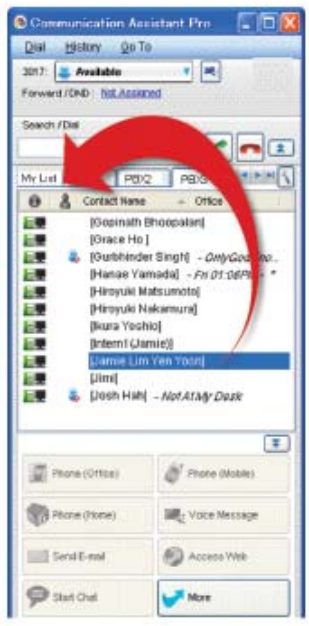
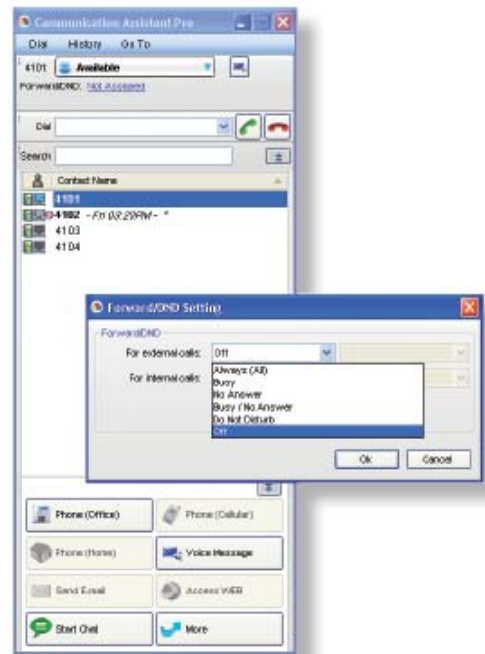
Communication Assistant Productivity Application Suite

Harness the power of the TDE platform with our ground-breaking Panasonic Communication Assistant. This highly-intuitive application suite offers the following key features:

- Seamless Networking & Searching Across Multiple Platforms
- Enhanced Voice Messaging (VMA)
- Versatile, Intuitive Conferencing Capability
- Instant Messaging (Chat) and Presence Capabilities
- Microsoft® Outlook®, CRM (TAPI) and Third Party Database (LDAP) Contact Integration
- Thin Client Support*
- Softphone

In addition, you can access presence information on up to 8 other Panasonic PBXs and search and update contacts, initiate chat or make and transfer calls across the network (server version required).

**Key required. Currently supports Microsoft Terminal Services and Citrix XenApp.*



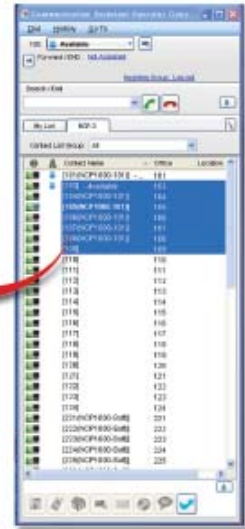
Search contacts across multiple PBXs and quickly add to My List via simple drag & drop.

Seamless Networking & Searching Across Multiple PBX Platforms

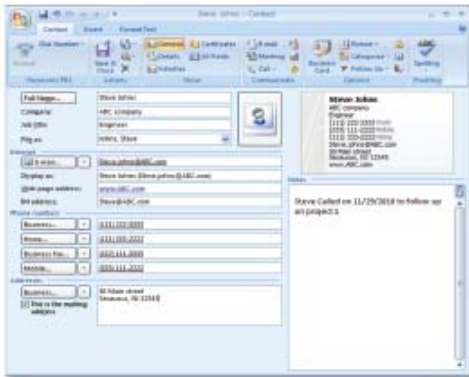
Communication Assistant features enhanced, built-in functionality that allows users to see across multiple PBX platforms. Once connected, users can search contacts, make calls over the network, determine Presence status and more—all from a single server PC. Once added to the contacts list, Presence status is updated in real time. Depending on network traffic and server PC performance, the CA server PC can maintain connections with up to 8 PBXs simultaneously. Contacts from a selected PBX can be added to “My List” via simple drag and drop. Search multiple PBXs and add up to 128 contacts in each of up to 5 “My List” archives and up to 1,022 clients per server module.

Simplified Teleconferencing

Conference organizers can quickly organize conferences for up to 32 participants via simple drag and drop from your contacts list. Up to 10 conference groups can be saved and assigned names and pin numbers for even quicker set up when the group needs to meet again.



Conference initiator can add up to 32 attendees by drag & drop.



Outlook pop-up toolbar increases call efficiency

Outlook Toolbar Enhancement

Communication Assistant lets Outlook users maximize time spent on the phone with a new toolbar feature. Incoming calls are accompanied by a pop-up window showing the caller's contact information* and memos from previous calls, maximizing call efficiency.

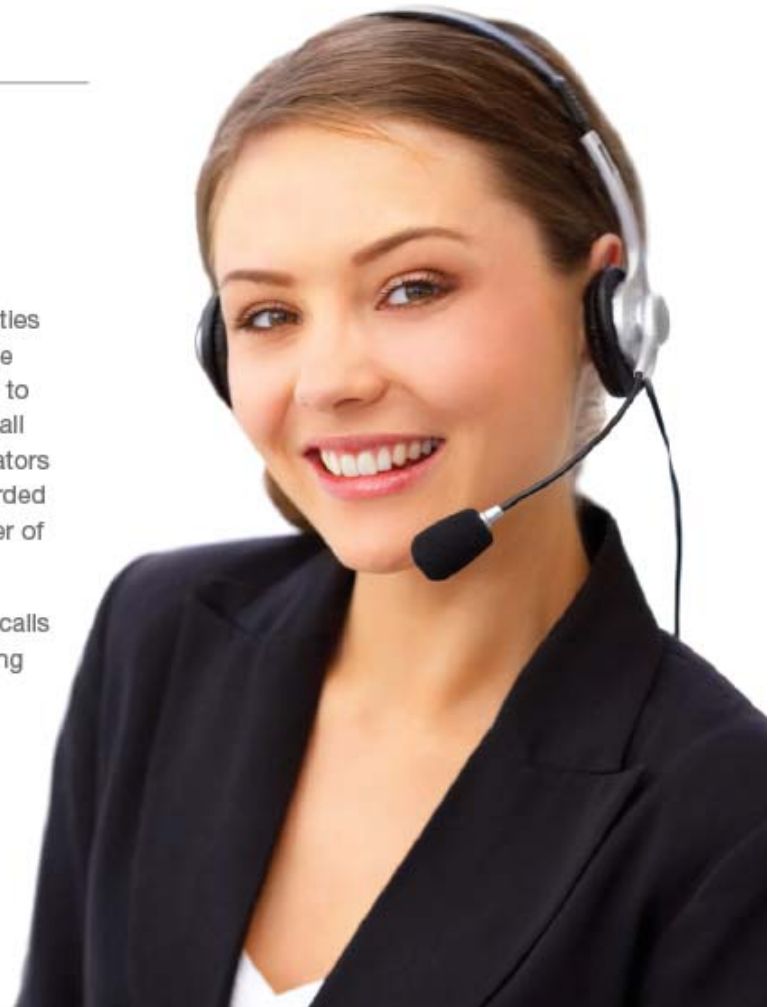
**LDAP search results are limited.*

Call center Solutions

Powerful, built-in monitoring and reporting capabilities make the TDE an ideal platform for call centers. The system can organize and distribute calls according to purpose and priority, improving efficiency and overall customer service. Calls can be queued when operators are busy fielding other calls, with music or prerecorded promotional messages played, reducing the number of lost calls and missed business opportunities.

Preferred customers and VIPs can even have their calls priority routed to designated staff members, allowing you to provide special attention to special clients.

Visit www.panasonic.com/bts for a list of partner-provided reporting and monitoring applications software compatible with TDE Systems.



So many ways to connect

Panasonic system telephones offer unlimited connection options to fit both the unique needs of your growing business and your budget.



KX-NT400 IP Telephone

Harness the power of your Panasonic communications platform with our top-of-the-line network telephone. The KX-NT400 IP Network Telephone combines a color touchscreen display with our acclaimed built-in Communication Assistant software for state-of-the-art communications capability. Perfect for locations where a PC is not practical, the NT400 features Internet functionality so you can easily access business applications running on a company web server. Link the system to a Panasonic network camera* and see what the camera sees right on the touchscreen with pan/tilt/zoom functionality.

*Panasonic KX-HCM or BL-C series.

KX-NT300 Series IP Telephones

VoIP Solutions for Ultimate System Access.
Panasonic IP system phones let you integrate your remote employees and locations by giving them easy access to your corporation's central communication hub, letting them enjoy the feature-rich capabilities of your Panasonic phone system.



IP Conferencing Phones

Get the Most out of Your Conference Calls. With ever-tightening budgets, busy schedules, deadlines, traffic jams and geographically dispersed offices, telephone conferences are proven time and money savers. Get the most out of your conference call with the Panasonic KX-NT700 IP Conference Phone. Enjoy hi-def sound while benefiting from ingenious features such as the ability to record calls on an SD card, Real Time Slow Talk, which slows down the speech of fast talkers, and Noise-Reduction Technology.



DECT Multi-Cell Wireless Handsets

Enjoy superb mobility no matter where you work. Whether it's in an office, warehouse, supermarket or other large facility, Panasonic Multi-Cell DECT system phones keep you in touch with customers and colleagues, even when you have to leave your work area. Need a tough phone for tough environments? Our ruggedized, shock-resistant model features dust and splash protection and stands up to accidental drops and spills.

KX-DT300 Series Digital Telephones

The perfect system for your business... and your budget. KX-DT300 series digital system phones feature outstanding voice quality and a wide range of productivity-boosting features including Bluetooth®-enabled wireless headset support, a 24-character backlit display and programmable navigation keys. Designed for easy integration with other Panasonic telephone platforms, they're an ideal, cost-effective solution for a variety of applications, including call centers, hotel rooms and others.



SIP Phones

Increase Connection Options while Lowering Costs.
 The Panasonic KX-HGT100 uses the latest SIP (Session Initiation Protocol) technology, helping to lower business telephone costs and simplify communications management. It supports local office users or remote workers, connecting over high-speed broadband IP networks from virtually anywhere. Ideal for companies with geographically diverse office locations.

Enhanced communications and networking solutions

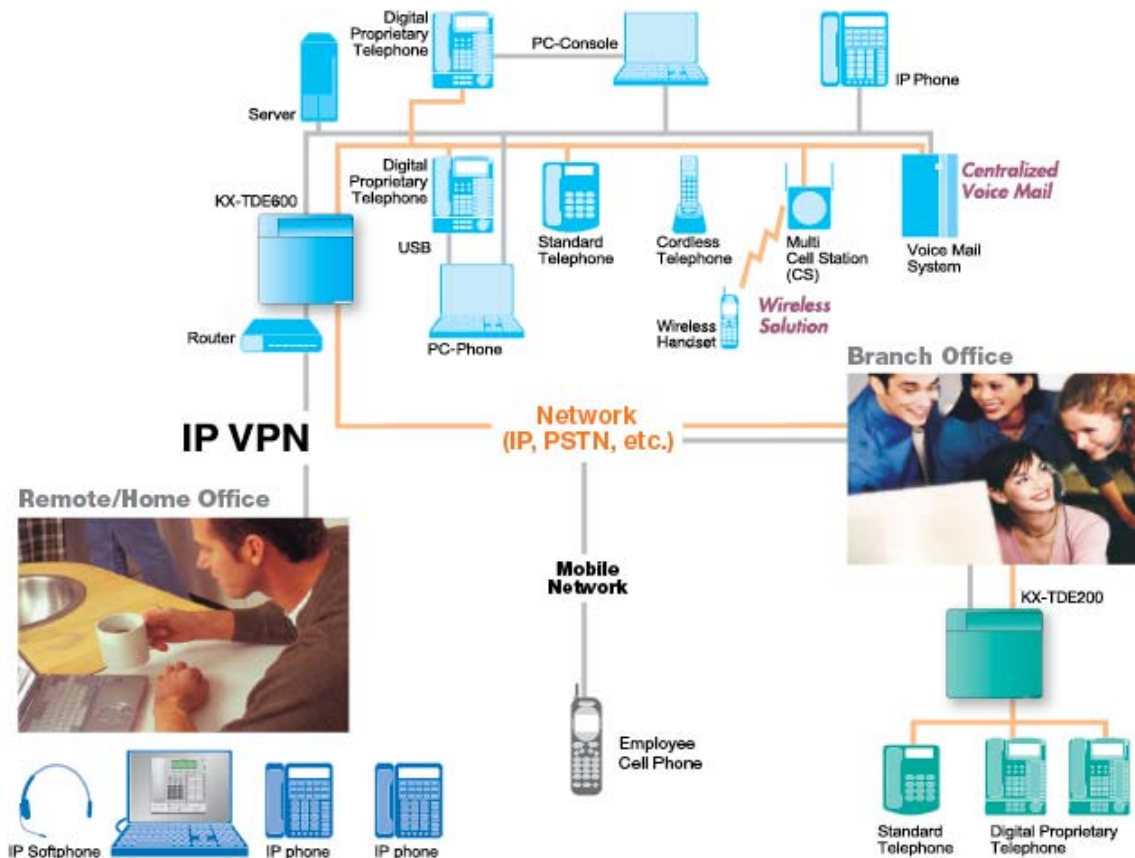
Networking Solutions

The KX-TDE lets you custom design a networking solution that best complements your organization's communications needs—no matter how mobile or decentralized. Employees can telecommute, calls to the home office can be forwarded to a salesperson's mobile phone and satellite offices can be brought under a single, easily-managed network.

For businesses with multiple locations, the system can be networked together using advanced IP technology, ISDN, or basic T1 services. The TDE system supports centralized voice mail, which services all phones within your network.



Headquarters



Integrated messaging



KX-TVA200
Voice Processing System

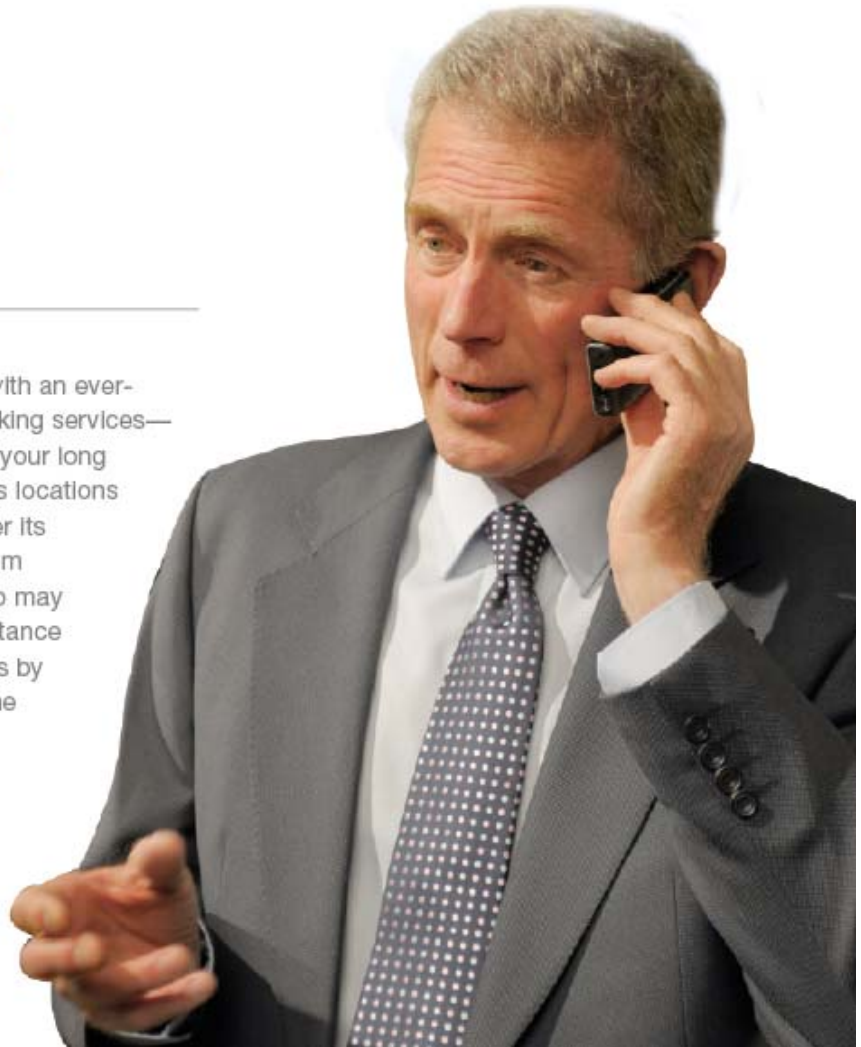
Integrated messaging solutions automate your message delivery so your customers can get the responsive, professional support they deserve. The system records messages automatically, keeping you in touch 24 hours a day. And of course, you'll love the cost savings. Panasonic messaging combines convenience with cost-savings all while producing a more satisfied customer.

Email Integration and Voice Mail with Auto Attendant

Add a KX-TVA series voice processing system and easily manage calls using the built-in automated attendant service, voice mail with email integration, and more. With the high level of integration between the TVA and the TDE, you can enjoy features like voice mail LCD menus that allow you to access and manage your voice mailbox using the LCD display and soft keys. With so many choices, it's easy to custom design a system that's right for you.

SIP trunking connectivity

The KX-TDE system can easily connect with an ever-growing list of providers offering SIP trunking services—an excellent way to maximize savings on your long distance charges. Calls between business locations can be routed by the service provider over its own network, thereby keeping the call from entering the network of other carriers who may charge connection, local toll and long distance charges. It also offers many other benefits by combining the Internet connection with the telephone line connection while allowing each employee to have their own direct phone number. Panasonic assures out-of-the box functionality for a complete end-to-end solution.



KX-TDE100/200 Features and Specifications

Systems are networkable up to 16 sites

Contains:

- KX-TDE-100: 1 Cabinet with 6 Free Slots
KX-TDE-200: 1 Cabinet with 11 Free Slots
- 1 Main Processor Unit
(Power Supply Not Included)
- 1 SD Card
- 4 Virtual Extension Slots
- 4 Virtual CO Slots
- 2CH Simplified Voice Mail

Features (some features listed are optional):

- Multi-Cell Wireless
- VoIP Gateway with QSIG
(Enhanced System Networking)
- Caller ID (Name and Number)
- ISDN Primary Rate Interface (PRI)
with QSIG & T1
- Networking with Centralized Voice Mail
- Voice Mail Integration
- Uniform Call Distribution (UCD)
- Direct Inward System Access (DISA)

MAXIMUM CO LINES		
Type	KX-TDE100	KX-TDE200
Total Number of CO Lines	128	128
CO Lines (Physical CO Line Card)	112	128
CO Line (Virtual CO Line Card)	64 ¹	64 ¹

¹ Only 49 virtual CO line/extension card channels can be in use at any one time (except for peer-to-peer calls for IP extensions).

MAXIMUM TERMINAL EQUIPMENT		
Type	KX-TDE100	KX-TDE200
Telephone	256	256
Single Line Port / Single Line Telephone	96	128
KX-DT300/KX-T7600 Series Digital Proprietary Telephone	128	256
Other Digital Proprietary Telephone	32	128
Analog Proprietary Telephone	24	64
IP Proprietary Telephone	192	192
IP Proprietary Telephone ¹ (supported by IP-EXT16 card)	96	128
IP Proprietary Telephone ² (supported by IPCMPR card)		128 ³
SIP Extension		128
DSS Console		8
Cell Station	32 ⁴	32 ⁴
High-Density Cell Station	16	16
Multicell Wireless Phone		128
Voice Processing System (VPS) ⁵		2
Doorphone	16	16
Door Opener	16	16
External Sensor	16	16
External Relay	16	16

¹ KX-NT300 series (except KX-NT305/KX-NT305), KX-NT205, and KX-NT130.

² KX-NT300 series and KX-NT205 (software version 2.00 or later only).

³ For the KX-NT400, the maximum number of extensions that can be connected to the PBX is 64.

⁴ One high-density CS or IP-CS counts as 2 CSs for the total number of CSs.

⁵ Only a single VPS can be connected to one optional service card.

KX-TDE600 Features and Specifications

Basic Shelf (Main Unit)

Maximum Capacity 160 ports

Systems are networkable up to 16 sites

Contains:

- 1 Shelf with 10 Free Slots
- 1 Main Processor Unit (Power Supply Not Included)
- 1 SD Card
- 4 Virtual Extension Slots
- 4 Virtual CO Slots

Features:

- SIP Trunk
- SIP Extension
- Multi-Cell Wireless (DECT or 2.4GHz)
- VoIP Gateway with QSIG (Enhanced System Networking)
- VoIP Extensions
- PC-Based Programming
- DXDP (Digital Extra Device Port)

- Automatic Route Selection (ARS)
- Toll Restriction
- Caller ID (Name and Number)
- ISDN Primary Rate Interface (PRI) with QSIG and T1
- Voice Mail Integration
- Networking with Centralized Voice Mail
- Uniform Call Distribution (UCD)
- Direct Inward System Access (DISA)

KX-TDE620 Expansion Shelf

Maximum Capacity 160 ports

Contains:

- 1 Shelf with 11 Free Slots
- 1 BUS-S Card

A maximum of 3 KX-TDA620 expansion shelves can be connected to the KX-TDE600 basic shelf. Requires that BUS-M (KX-TDA6110) and BUS-ME (KX-TDA6111) cards be installed in the KX-TDE600 basic shelf. (Power Supply Not Included)

MAXIMUM CO LINES				
Type	Base Unit	Base Unit +1 Expansion Shelf	Base Unit +2 Expansion Shelves	Base Unit +2 Expansion Shelves
Total Number of CO Lines	224	384	544	544
CO Lines (Physical CO Line Card)	160	320	480	480
CO Line (Virtual CO Line Card)			64 ¹	

¹ Only 40 virtual CO line/extension card channels can be in use at any one time (except for peer-to-peer calls for IP extensions).

MAXIMUM TERMINAL EQUIPMENT				
Type	Base Unit	Base Unit +1 Expansion Shelf	Base Unit +2 Expansion Shelves	Base Unit +3 Expansion Shelves
Telephone	368 (432) ¹	608 (736) ¹	848 (1008) ¹	992 (1152) ¹
Single Line Port / Single Line Telephone	240	480	720	960
KX-DT300/KX-T7600 Series Digital Proprietary Telephone	256	512	640	640
Other Digital Proprietary Telephone	128	256	384	512
Analog Proprietary Telephone	80	160	240	320
IP Proprietary Telephone	288	448	608	704
IP Proprietary Telephone ¹ (supported by IP-EXT16 card)	160	320	480	640
IP Proprietary Telephone ² (supported by IPCMPR card)			128 ⁴	
SIP Extension			128	
DBS Console			64	
Cell Station	32 ⁵	64 ⁵	96 ⁵	128 ⁵
High-Density Cell Station	16	32	48	64
Multicell Wireless Phone			512	
Voice Processing System (VPS) ³			8	
Doorphone	16	32	48	64
Door Opener	16	32	48	64
External Sensor	16	32	48	64
External Relay	16	32	48	64

¹ Even when Digital Extra Device Port is used, each shelf supports a maximum of 256 KX-DT300/KX-T7600 series Digital Proprietary Telephones.

² KX-NT300 series (except KX-NT305/KX-NT305), KX-NT205, and KX-NT130.

³ KX-NT300 series and KX-NT205 (software version 2.00 or later only).

⁴ For the KX-NT400, the maximum number of extensions that can be connected to the PBX is 64.

⁵ One high-density CB or IP-CB counts as 2 CBs for the total number of CBs.

⁶ Only a single VPS can be connected to one optional service card.

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Voice- Data-Video..... Peace of mind!



Panasonic System Networks Company of America

Home and Business Communications