Converged IP Communications Platform

Enhanced Communications Solutions

Panasonic *ideas for life*

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-efficiently **links** employees to customers and each other, **no matter where** their location.

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.
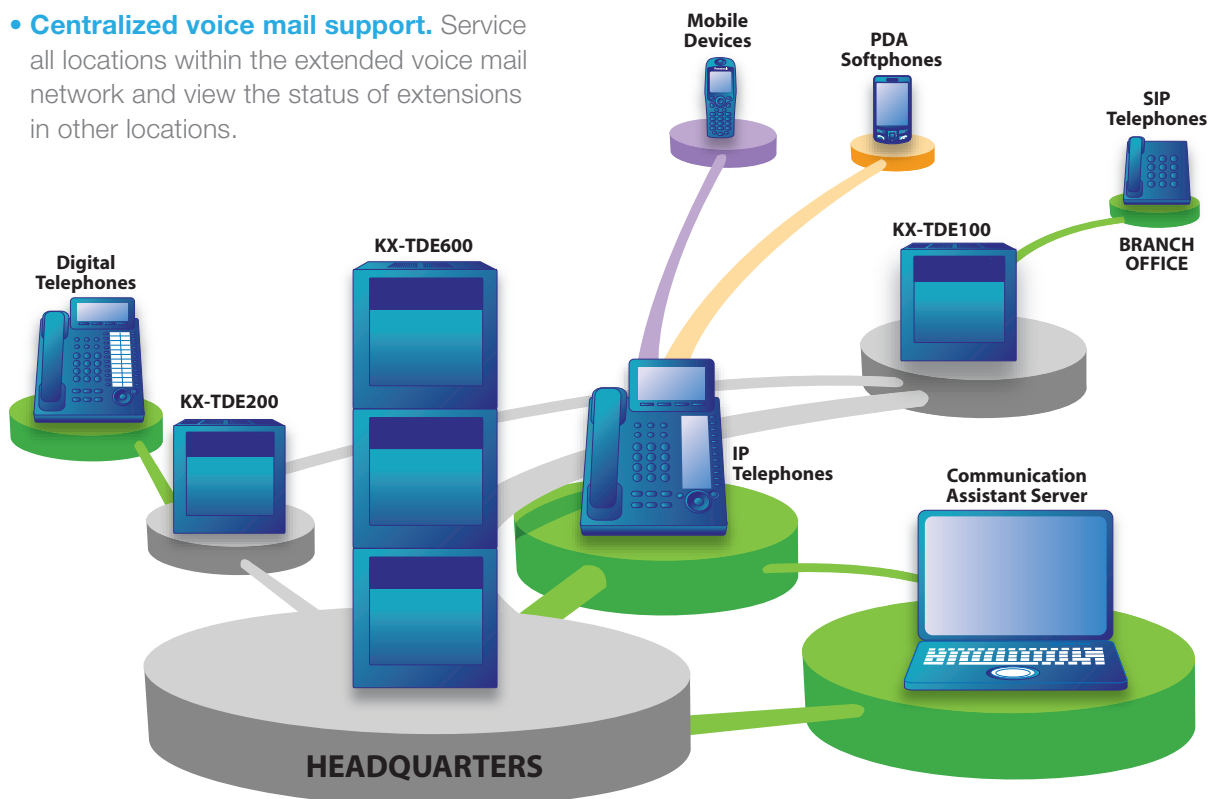
The KX-TDE is engineered with features that complement today's decentralized, mobile business environment including:

- **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.

Mobile Devices

PDA Softphones

SIP Telephones

KX-TDE100

BRANCH OFFICE

KX-TDE600

Digital Telephones

KX-TDE200

IP Telephones

Communication Assistant Server

HEADQUARTERS

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 System

| Base Unit | Base Unit +1 Expansion Shelf | Base Unit +2 Expansion Shelves | Base Unit +3 Expansion Shelves |

Productivity applications to suit your business needs

Communication Assistant Productivity Application Suite

Communication is key to running a successful business, whether you are small or large. Communication bottle-necks can seriously affect customer service, damage client relationships and lower productivity.

Harness the power of your KX-TDE system with our ground-breaking Communication Assistant. This highly-intuitive application suite for the NCP and TDE platforms provides the following key features:

- Enhanced Voice Messaging (VMA)
- Instant Messaging (Chat) and Presence Capabilities
- Microsoft® Outlook®, CRM (TAPI) and Third Party Database (LDAP) Contact Integration
- Softphone

In addition, you can access presence information on other Panasonic PBXs and initiate chat or make and transfer calls across the network (server version required).
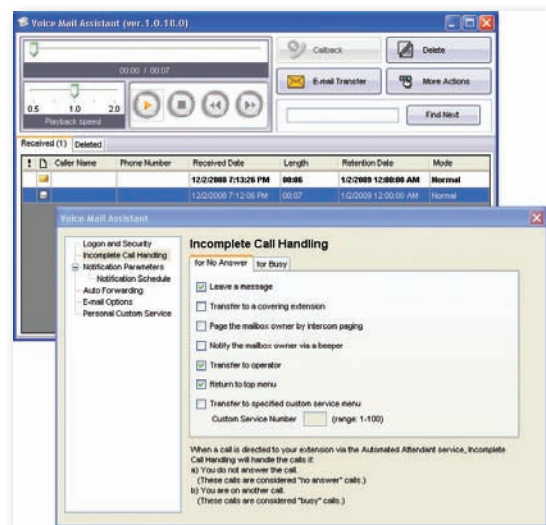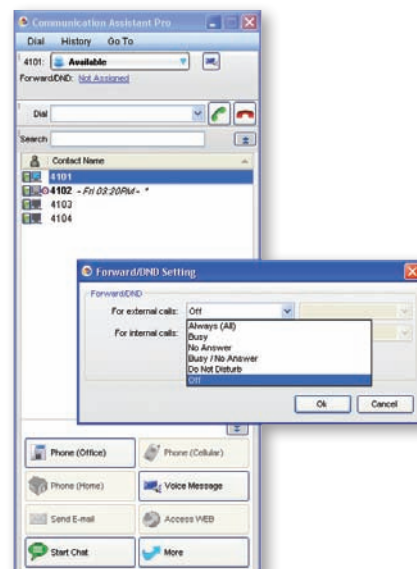
Communication Assistant productivity software offers an affordable, flexible and reliable solution to help your business lower costs, increase revenue, improve customer satisfaction and increase employee productivity.

VM Assistant – Flexible, Easy-to-Use, Unified Messaging

Access any voice messages you have and in the order that you prefer to retrieve them. All you need is a computer with network access with VM Assistant.

Additionally, companies using the optional KX-TVA Voice Messaging Solution can use Communication Assistant to visually manage their voice mails with Voice Mail Assistant. This allows you to:

- Visually see Voicemail Messages
- Manage messages (play/pause, skip, forward, rewind, delete, adjust playback speed etc.)
- Seamlessly share messages across all your networked PBXs or export to a PC
- Change and Administer Voice Mailbox Options
- Transfer a message as an email attachment using Outlook
- Call Back the Person Who has Left a Message

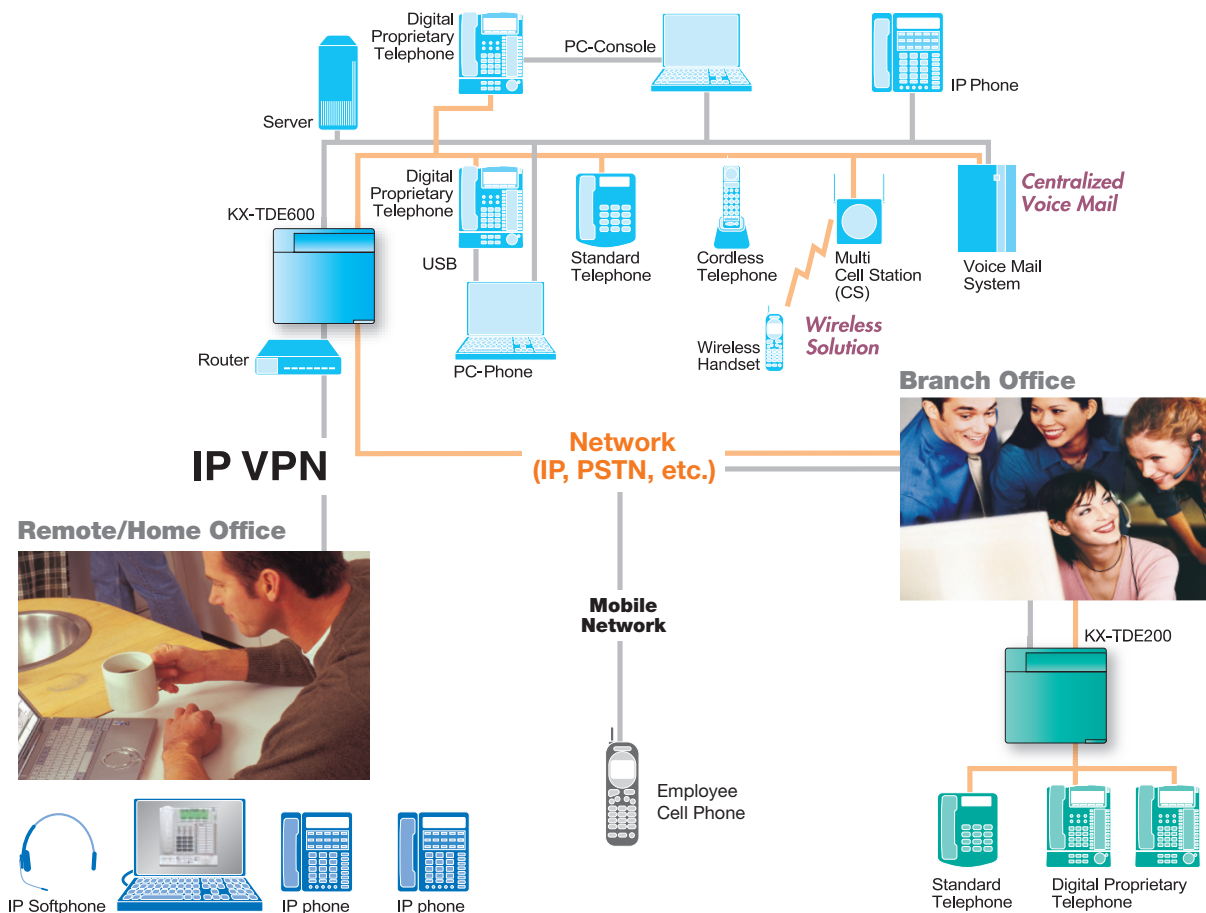# Enhanced communications and networking solutions

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

Server

Digital Proprietary Telephone

PC-Console

IP Phone

KX-TDE600

Digital Proprietary Telephone

USB

PC-Phone

Standard Telephone

Cordless Telephone

Multi Cell Station (CS)

Centralized Voice Mail

Voice Mail System

Wireless Solution

Wireless Handset

Router

IP VPN

Network (IP, PSTN, etc.)

Branch Office

Remote/Home Office

Mobile Network

Employee Cell Phone

KX-TDE200

IP Softphone

IP phone

IP phone

Standard Telephone

Digital Proprietary Telephone

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 Series IP Telephones

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 Communications 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 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-TD7696
Ruggedized Model

KX-TD7695
Compact Model

KX-TD7685
Standard Model

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 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 communication 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.

Call center solutions

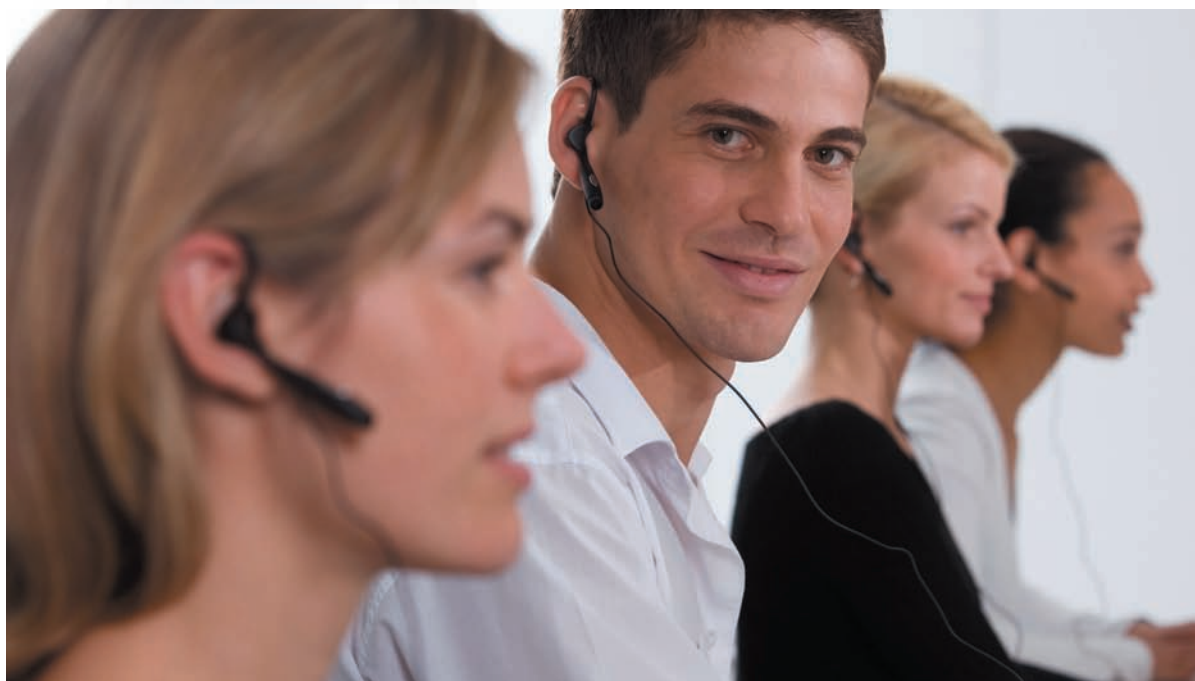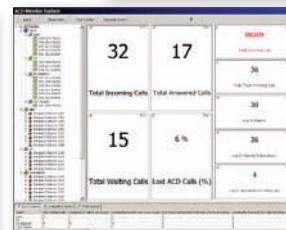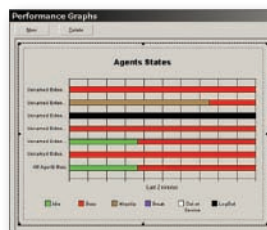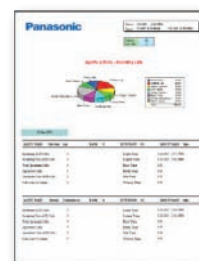## Achieve Efficient, Cost Effective Call Center Management

with the TDE system's built-in call center functions. In addition to its powerful monitoring and reports functions, the system can organize and distribute calls according to purpose and priority, making your call center more efficient while maximizing customer service.

Calls can be queued while your team is busy with other calls, and music or prerecorded promotional messages can be played for waiting callers to help reduce lost calls and missed business opportunities. You can also assign an additional backup destination for calls that are not answered within a specific period of time. Preferred customers and VIPs can even have their calls priority routed to specific staff members, allowing you to provide special attention to special clients.

KX-NCV200 ACD Reports Server

The KX-NCV200 bolsters the TDE's call center functions with monitoring and performance reports, call information history, and agent log-in.

It's easy to optimize call center management with the NCV200's readable and comprehensive performance reports, which can be reproduced in emails or color graphs.

Integrated messaging

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 combine 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.

KX-TVA200
Voice Processing System

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[2] (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 Line (Physical CO Line Card)	112	128
CO Line (Virtual CO Line Card)	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-NT366/KX-NT305), KX-NT265, and KX-NT136.
2 KX-NT300 series and KX-NT265 (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[2] (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-TDA620 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 +3 Expansion Shelves**
Total Number of CO Lines		224	384	544	640
	CO Line (Physical CO Line Card)	160	320	480	640
	CO Line (Virtual CO Line Card)	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		**Base Unit**	**Base Unit +1 Expansion Shelf**	**Base Unit +2 Expansion Shelves**	**Base Unit +3 Expansion Shelves**
Telephone (using Digital Extra Device Port)		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[2] (supported by IP-EXT16 card)	160	320	480	640
	IP Proprietary Telephone[3] (supported by IPCMPR card)	128[4]			
	SIP Extension	128			
DSS 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)[6]		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-NT366/KX-NT305), KX-NT265, and KX-NT136.
3 KX-NT300 series and KX-NT265 (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.
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