

Digital Proprietary Telephone Line-Up and Options

KX-DT300 Series

Line-up



KX-DT346

- 6-Line Backlit LCD Display
- 24 Flexible CO Buttons
- Digital Speakerphone
- Bluetooth® Module (Option: KX-NT307)
- Add-On 12-Key Module (Option: KX-NT303)
- 60-DSS Console (Option: KX-DT390)
- USB Module (Option: KX-DT301)

3-Line Backlit LCD

KX-DT343

- 3-Line Backlit LCD Display
- 24 Flexible CO Buttons
- Digital Speakerphone
- Bluetooth® Module (Option: KX-NT307)
- Add-On 12-Key Module (Option: KX-NT303)
- 60-DSS Console (Option: KX-DT390)
- USB Module (Option: KX-DT301)

3-Line LCD

KX-DT333

- 3-Line LCD Display
- 24 Flexible CO Buttons
- Digital Speakerphone
- 60-DSS Console (Option: KX-DT390)

1-Line LCD

KX-DT321

- 1-Line LCD Display
- 8 Flexible CO Buttons
- Digital Speakerphone
- 60-DSS Console (Option: KX-DT390)

Options

Add-on Key Module



KX-NT303

- Add-on 12-Key Module (For KX-NT346/343/KX-DT346/343 only)

KX-DT390

- 60 DSS Console (For KX-DT346/343/333/321 only)

USB Module



KX-DT301

- USB Module (For KX-DT346/343 only)

Bluetooth® Module



KX-NT307

- Mounting the KX-NT307 lets you connect a commercially available Bluetooth headset for hands-free communication (answering calls/ending calls/voice communication). (For KX-NT400/366/346/343 and KX-DT346/343 only)

Panasonic

ideas for life

IP-PBX
KX-TDE Series



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Important

- Safety Precaution: carefully read the operating instructions and installation manual before using these products.

- Some models will be available to limited countries.
- The images shown of base unit display and lamps are composite images.
- Weights and dimensions are approximate.
- Design and specification subject to change without notice.
- These products may be subject to export control regulations.

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Panasonic



KX-TDE 100
KX-TDE 200
KX-TDE 600

Advanced Business Communications

Panasonic KX-TDE series are advanced business communication platforms designed to leverage the most out of your IP network. Targeting single or multi-site, small, medium and large businesses, these systems provide advanced unified communication solutions to give your business the right set of tools to have a competitive edge. The KX-TDE series also support a range of smart and easy to use wired and wireless terminals designed to enhance business productivity.



Your business investment protected

Businesses need to be able to effectively communicate today, yet want to make sure that they are properly equipped to handle the growing demands of their future communication needs.

Convergence ready, modular, extensible, flexible, SIP enabled, and providing built-in support for unified communications productivity applications; the KX-TDE series are ideal communication platforms for customers to solve their business communication needs today as well as in the future as they embrace Unified Communications together with full IP telephony. IP networking support enables flexible expansion to meet the company's growth, such as when employees increase or new offices are added.

Advanced platforms to empower business communications

The KX-TDE communication platforms allow businesses to enable fast and efficient collaboration over any distance and helps businesses to efficiently connect and interact with customers, colleagues and partners with ease.

By combining the power of voice and data over converged high speed IP networks, the KX-TDE series provide companies with a flexible solution that lets businesses leverage the latest advances.

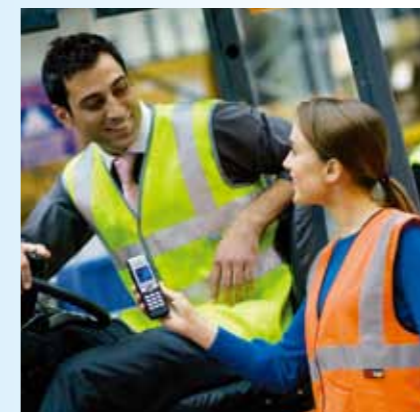
Easily upgrade to IP communications

A straight forward and smooth migration path is the key for customers upgrading to converged solutions.

Panasonic offers a simple yet reliable solution to make it easy for existing customers with KX-TDA PBX systems to effortlessly migrate or upgrade to IP Telephony, simply by exchanging the Main Processor Card. Customers can then choose to deploy IP telephony, SIP trunking, or even implement unified communications productivity applications as and when their business needs demand for it. This provides businesses with simple and evolutionary steps to take advantage of all the new features and benefits from true convergence, whilst protecting investments and allowing adoption of new business solutions.

Reliability

The reliability of Panasonic TDE communication platforms are assured by rigorous quality control and testing before these systems leave the factory, guaranteeing you piece of mind. The KX-TDE series are designed with no need for hardware maintenance with all programming changes possible from any local or remote location.



Office Communication Systems

KX-TDE100 / 200 / 600



Networking Solution

Panasonic KX-TDE Series Unified Communications Solutions can help businesses lower costs, increase productivity and connect multiple office locations, wherever they may be. The system is designed to effectively energise every aspect of the company's communications, allowing quick return on investment.

Benefit of VoIP (Voice over IP)

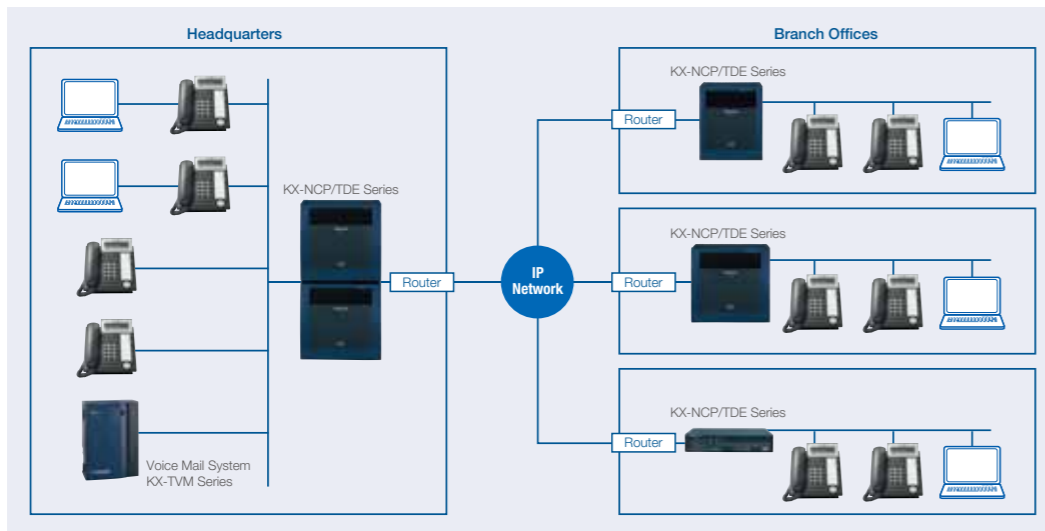
Cost Effective

This system leverages on the VoIP (Voice over IP) H.323 technology to cost effectively handle intra-office communications. Communication costs between office locations can be reduced by connecting the KX-TDE Series to the existing IP network.

Feature Transparency

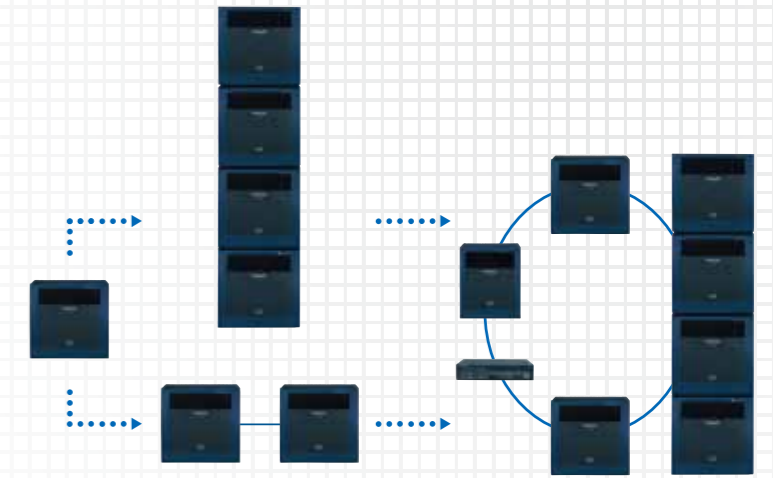
Multiple PBXs can be connected with an IP network, and utilised as if it were a single PBX. It is possible to transfer and forward calls, record messages to the Voice Mail system, and confirm presence information through the Communication Assistant, without being conscious of the location.

- Call Forwarding
- Call Transfer
- Call Pickup
- Automatic Answer
- Message Waiting
- Automatic Call Back Busy
- Busy Station Signaling
- Busy Override
- Call Monitor
- DND Override
- Internal Call Blocking
- ICD group
- Conference
- Network DSS Key
- VM Transfer Key
- Centralized VM
- Communication Assistant etc.



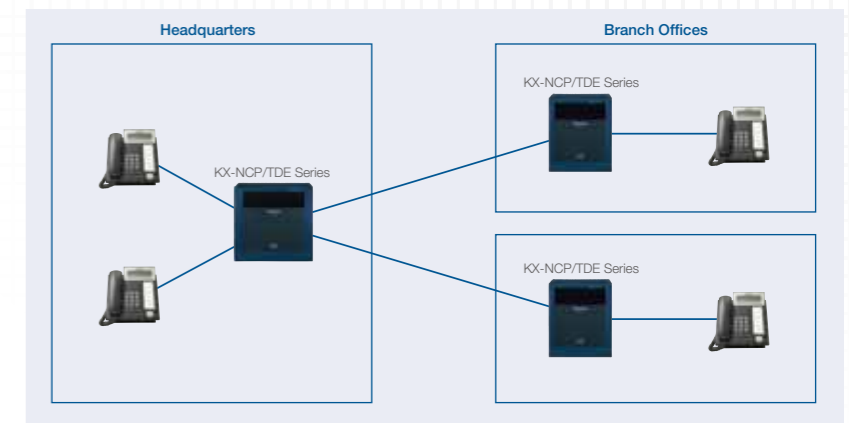
Flexible Expansion

It is possible to flexibly increase capacity by adding additional Main Units or connecting of the KX-TDE Series or the KX-NCP Series through an IP network, such as when the office population increases or a new branch is opened. The company's communication environment can be expanded step by step, as it grows.



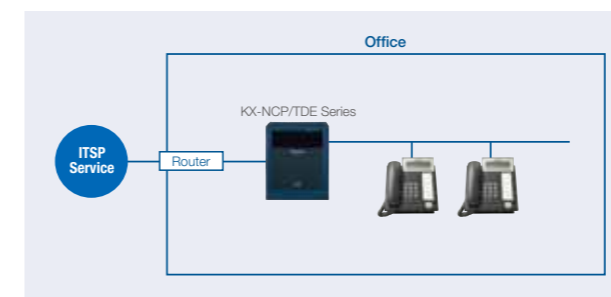
ISDN QSIG Digital Networking

Compliant with the ISDN (BRI/ PRI) QSIG Protocol. The same Feature Transparent function as the H.323 VoIP network can be used over an ISDN network.



SIP Trunking for ITSP

Affordable SIP Services provisioned by SIP based Internet Telephony Service Providers (ITSP) can be used through the SIP trunk interface.



Office Communication Systems

KX-TDE100 / 200 / 600

Endless Possibilities with a Wide Range of Devices

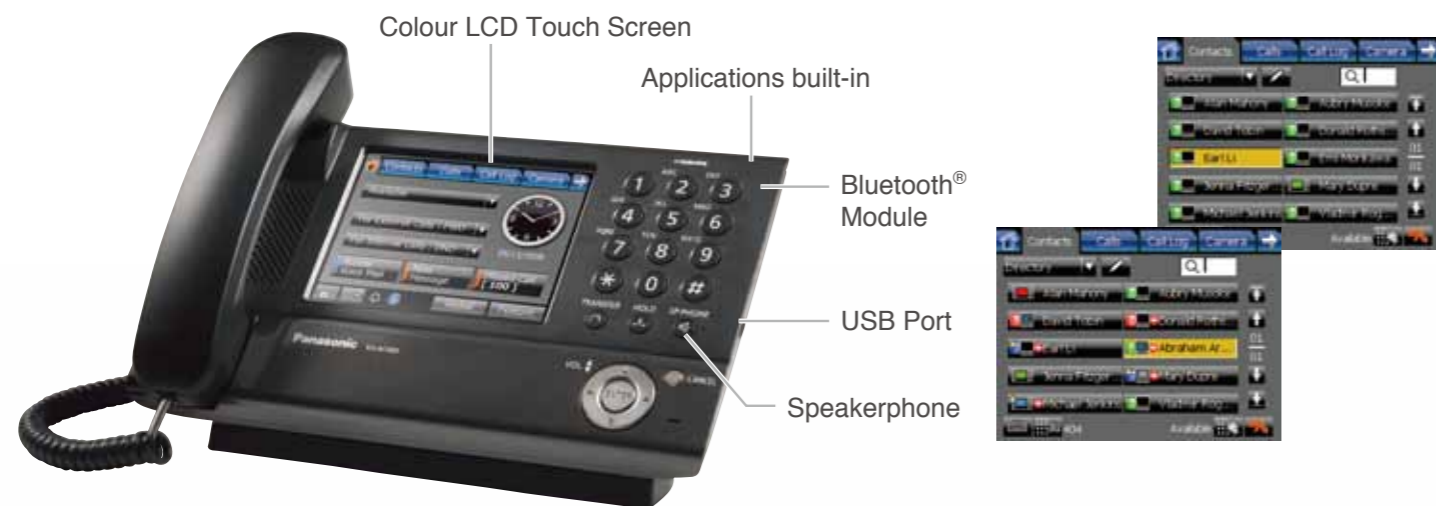
With the new KX-TDE system, businesses can choose from any type of telephone terminal that fits their needs. The platform supports the Colour LCD touch screen IP Telephone, stylish digital and IP telephones, SIP phones, and DECT wireless phones. Also, with support for a family of standard telephones together with fax, the KX-TDE gives companies an extensive choice of solutions to suit their unique business telephony needs.



IP Proprietary Telephones

KX-NT400

The KX-NT400 is equipped with a touch panel on a large colour LCD, allowing easy operation. You can link to a network camera and can also access intranet Web applications without a PC. All this makes for smooth office communication.



Network Camera Integration

The KX-NT400 can display video feeds from Panasonic Network Cameras. Also, Network camera integration with a door phone allows added safety, as employees can monitor who is at the door and only allow expected visitors onto their premises.



Enhance Productivity

You can view intranet Web pages on the KX-NT400 via the portal (Web browser). This can be useful for accessing resources such as company news or an employee directory. You can also make calls directly from an intranet Web page that contains links to KX-NT400 also supports a new application interface using the XML method for development in a vertical market.



KX-NT300 Series

KX-TDE platforms support the KX-NT300 Series IP telephones that are stylish, intuitive, user-friendly, and easy to use by any system telephone user.

The KX-NT300 Series IP telephones take you to a new dimension in audio experience, communications productivity, broadband network connectivity and customer care. These IP telephones bring you the power of the advanced KX-TDE system, allowing quick access to the entire range of advanced features and applications.



Line-up

6-Line Backlit LCD & Self-Labeling

KX-NT366

- 6-Line Backlit Display
- 4 x 12-Self-Labeling, Flexible CO Buttons
- Digital Speakerphone
- 2 Ethernet Ports (100 Base-T)
- Power-over-Ethernet (PoE)
- Bluetooth® Module (Option)

6-Line Backlit LCD

KX-NT346

- 6-Line Backlit Display
- 24 Flexible CO Buttons
- Digital Speakerphone
- 2 Ethernet Ports (100 Base-T)
- Power-over-Ethernet (PoE)
- Bluetooth® Module (Option)
- Add-on 12-Key Module (Option: KX-NT303) or Add-on 60-Key Module (Option: KX-NT305)

3-Line Backlit LCD

KX-NT343

- 3-Line Backlit Display
- 24 Flexible CO Buttons
- Digital Speakerphone
- 2 Ethernet Ports (100 Base-T)
- Power-over-Ethernet (PoE)
- Bluetooth® Module (Option)
- Add-on 12-Key Module (Option: KX-NT303) or Add-on 60-Key Module (Option: KX-NT305)

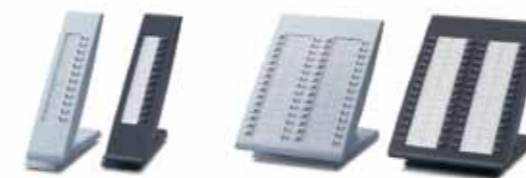
1-Line LCD

KX-NT321

- 1-Line LCD Display
- 8 Flexible CO Buttons
- Digital Speakerphone
- 2 Ethernet Ports (100 Base-T)
- Power-over-Ethernet (PoE)

Options

Add-on Key Module



KX-NT303

- Add-on 12-Key Module (For KX-NT346/343/ KX-DT346/343 only)

KX-NT305

- Add-on 60-Key Module (For KX-NT346/343 only)

Bluetooth® Module



KX-NT307

- Mounting the KX-NT307 lets you connect a commercially available Bluetooth headset for hands-free communication (answering calls/ending calls/voice communication). (For KX-NT400/366/346/343 and KX-DT346/343 only)

SIP Telephone Support You Choose

With built-in support for the latest SIP technology, the TDE series can support SIP telephones as standard extensions.

SIP Telephone

KX-HGT100

- 2-line, 16-character LCD
- 2nd Ethernet Port
- Power-over-Ethernet (PoE)
- Hold, Transfer, Mute
- Speakerphone
- Caller ID & Call Log
- Voice mail waiting indicator



IP Conferencing phone

KX-NT700

- Full duplex acoustic echo-canceller
- Conference recording with SD Memory Card
- Power-over-Ethernet (PoE)
- Speech speed conversion

- Conferencing phone manager application (Simple video conferencing system with Panasonic Network camera)*
- *Peer to Peer connection only



Office Communication Systems

KX-TDE100 / 200 / 600





Wireless Solutions for True Business Mobility

Businesses can increase employee availability and enhance customer service by providing un-hindered access to wireless telephony.

Mobile/GSM Integration for One Number Solution



DID (Direct Inward Dialing) can be utilized to link extensions with mobiles. Customers can easily contact you using a single number, whether you are inside or outside of the office.

If you are outside of the office, the system can automatically transfer the call to your mobile. The system can also simultaneously ring both the Proprietary Telephone in your office and your mobile, so that you can receive calls from your customer whether you are inside or outside of the office.

If your mobile is turned off or is in an area where there is no mobile coverage, and you cannot answer the call, the voice mail system can automatically answer and record the caller's message.

If you are outside the office and make an outgoing call from your mobile via the PBX, the call's receiver will be notified with your office's telephone number and not your mobile's, so that you can manage the relationship with your customer through a "One Number".

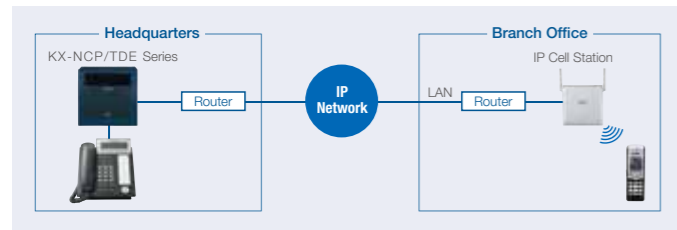
Furthermore, conference calls can be made with mobiles, speeding up decision making processes since meetings can be easily joined outside the office. Also save running costs by no longer using charged conference services of telephone carriers.

Multi-Cell DECT Wireless for Office Mobility Solution

The Panasonic office mobility solution lets you carry on your conversation over lightweight, wireless DECT terminals while you are away from your desk or moving around the office. Using Wireless XDP (extra Device Port), users can set their DECT wireless handsets to have the same extension as their desk phone, and then receive calls even when away from their desk. The Multi-Cell DECT System provides automatic hand-over between installed wireless cells, thereby enhancing coverage and giving you true communication mobility even within large premises.

IP Cell Station

IP Cell Stations can be connected directly to the LAN network. It is possible to extend the wireless communication zone by connecting IP Cell Stations to the LAN. If a Branch office is connected via an IP-VPN, then the Branch office can build a wireless communication network without PBX equipment.



*The functions that can be used depend on the MPR version of the PBX.

DECT Paging

Conference calls can be conducted with a maximum of 32 people (32 DECT handsets), enabling work instructions to be sent to multiple people at once. Two-way calls can also be made with up to 8 people (8 DECT handsets), enabling information to be shared in realtime.



*The number of DECT handsets that can join a conference call depends on the number of cell stations (number of channels).
*KX-WT115 cannot be used.

Personal Station Line-up



- 1.8 inch Monochrome LCD
- Noise Reduction
- Soft Keys
- Call Log (Handset)

KX-WT115
Business Entry Model



KX-TCA175
Business Standard Model



KX-TCA275
Business Compact Model



- Flexible Keys
- 1.5 inch colour LCD
- Noisy Area Mode*
- Editable Soft Keys
- Group Ring
- Call Log (PBX)
- Headset Ringer
- Vibration (KX-TCA275 Only)

*Background noise into microphone is softened when set to ON.



KX-TCA364
IP64 Tough type Model



- Dust and Splash Resistant
- Flexible Keys
- 1.5 inch Monochrome LCD
- Noisy Area Mode*
- Soft Keys
- Group Ring
- Call Log (PBX)
- Vibration

*Background noise into microphone is softened when set to ON.

*IP6: Dust Resistance, no invading of dust.
*IP4: Water Resistance, protection against splashed water.

Cell Station Line-up

IP Cell Station



KX-NCP0158
8ch IP Cell Station LAN/IF

Cell Station



KX-TDA0158
8ch Cell Station DPT/IF

KX-TDA0156
4ch Cell Station CS/IF

KX-TDA0155
2ch Cell Station DPT/IF

Repeater

Used with a repeater, the cell station range can be extended.



KX-A405
*For information on release dates, please inquire.



KX-A272



Office Communication Systems

KX-TDE100 / 200 / 600



Computer Telephony Solution

As personal computers have become an essential business tool, Panasonic has developed the 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.

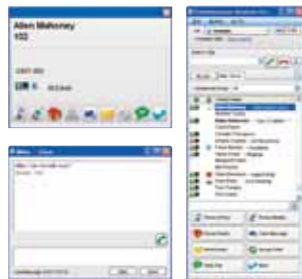
Communication Assistant Basic-Express/Pro For Personal Productivity

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.



Teleconferences with Easy and Simple Operations

Members that join a teleconference can be registered in a group using a PC drag-and-drop operation, so that teleconferences can be easily started.

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.



IP Softphone

Software that enables the IP proprietary functions to be used on a laptop computer can be used to make calls with a headset. This means that these functions can be conveniently utilized using less space when on business trips or working from home, because hardware such as a telephone is not required.



Communication Assistant (CA Version 3) Specification

	CA Basic-Express	CA Pro	CA Operator Console	CA Supervisor
Maximum Users (PBX Only/With CA Server)	240/1022	240/1022	128/128	4/128
Built-in Licence	TDE100/200	10 (free additional licence)	4*	N/A
	TDE600	20 (free additional licence)	8*	N/A
Call Contact	10		1000	
Call History	10		1000	
Multi site communication (Networking)	N/A		Yes	
CRM Integration by TAPI	N/A		Yes	
Thin Client Support	Yes		Yes	

*60 day trial installations

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 Supervisor For Team or Executive User

The supervisor can monitor each agent's phone status and also remotely log-in 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.



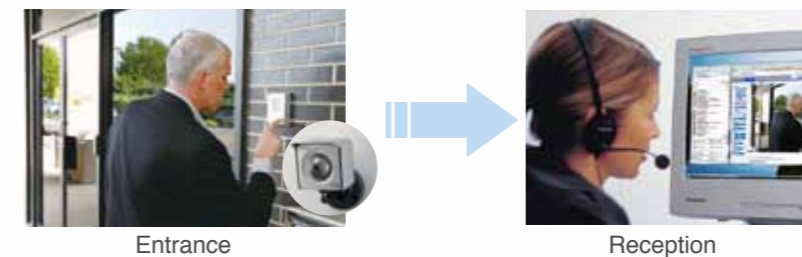
Multi site Communication

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-TDE supports 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.



Office Communication Systems

KX-TDE100 / 200 / 600



Voice Messaging Solution

Voice guidance provides a user-friendly interface to simplify and streamline business communications by efficiently routing customer calls to the proper department or agents. Furthermore, a voice mail storage facility can be used for graceful offline call handling during busy hours, thus increasing overall productivity and providing better customer service.

Enhanced Simple Voice Message (ESVM)

ESVM provides added message recording and outgoing message handling capabilities that ensure calls from your customers are routed through properly and are always answered or processed smoothly.

ESVM also allows you to record your favourite music which is then played to callers on hold. Each tenant can record and play a maximum of 6 pieces of music. 2 channel Enhanced Simple Voice Message is built-in.

- User as well as Group Voice Mail Services
- Voice Guidance-based Call Routing
- Transfer Out from Voice Mailbox to MSG Functions
- Multi-level Auto-Attendant with OGM Recordings
- Queue Messages
- CO-to-CO End of Call Detection
- Mobile Phone Extension Support



External Solution

Companies requiring enhanced voice messaging capabilities beyond the functions found on the optional ESVM cards can upgrade to the external KX-TVM50 or KX-TVM200 messaging solutions that provide enhanced message applications and customer service opportunities. These external optional voice processing systems come fully packed with business class voice messaging features designed to help businesses handle every call in a courteous and efficient manner.

- Single or Multi-Site Central Voice Messaging Service
- Advanced Automated Attendant Service
- E-Messaging (email notification with voice message attachment)
- Interview Service
- Voice Mail Menu on LCD of System Phones for Easier Operation
- Caller Name Announcement
- Caller ID/CLIP-based Greetings
- Call Screening
- Call Recording
- Holiday Service
- Multilingual Voice Prompts
- Fax Detection/Routing

	Enhanced Simple Voice Mail (ESVM)			External Solution	
	Built-in	Optional		KX-TVM50	KX-TVM200
		KX-TDA0192	KX-TDA0194		
Number of Ports	2	2	4	2 to 6	0 to 24
Voice Storage	Max: 2 hours	Max: 2 hours	Max: 2 hours	Max: 8 hours	Max: 1000 hours
Number of Mailboxes	—	—	—	Max: 64	Max: 1024
Number of Messages	125	250	2 x 250	Unlimited	Unlimited



KX-TVM50



KX-TVM200



Call Centre Solution

The KX-TDE comes with a built-in sophisticated call centre solution flexible enough for most customer needs. It allows businesses to increase agent productivity, improve team communication visibility, efficiently route customer calls to appropriate departments, and help desks or sales teams.

Packed with Call Centre Features

Whatever the size of your company, efficient and courteous handling of telephone calls is a major factor for successful business. The KX-TDE series includes an advanced call routing function for small to medium size call centres. This function can be used without an external CTI server. More efficient call reception enables you to effectively utilize limited resources to assist in improving customer service.

- Longest Idle Distribution
- Uniform Call Distribution
- 1 : N Ringing (Group Ringing) / Delayed Ringing
- Automated Attendant
- Call Queue with Waiting Message
- Priority Routing for VIP Call
- Busy on Busy
- Intercept to VM
- Walking Extensions ('Hot Desking')
- Log-in/Log-out by Agent
- Ready / Not Ready / Wrap-up
- Call Queue Monitoring by Supervisor
- Call Queue Reporting
- Log-in/Log-out control by Supervisor
- Listen-in by Supervisor
- Busy override by Supervisor



Furthermore, the solutions can be expanded to suit more sophisticated call centres in combination with Panasonic's Communication Assistant and third party CTI applications.



Office Communication Systems

KX-TDE100 / 200 / 600

Solutions for All Industries

For businesses, personal contact with customers is a significant factor for success. The telephone system is at the heart of all communications regardless of how the communication is conveyed: via IP, by traditional telephony or by employing wireless technology. What is crucial for businesses is quality and reliability. Panasonic provides applications and solutions that address all these crucial business needs.



Hospitality

The hospitality market requires the communications system to be flexible, economical, and easy to use, with maximum reliability and adaptability for the individual needs. PC integration to allow guest room billing and system management has also become a requirement of this sector. The KX-TDE is equipped with all these necessary hospitality features and solutions.



Health Service

A telecommunication system in a nursing facility and resident housing must have a high level of reliability to meet the requirements of staff. The KX-TDE meet these requirements and offers custom-made solutions that can be integrated to support administrative tools and emergency call systems. The investment ensures security by flexible future-safe technology.



Medical

To be able to work effectively and comfortably in a medical environment, it is necessary that the communication platform adapt to fit the needs of the health industry. With safe wireless mobility, advanced call distribution and flexible CTI, Panasonic provides an effective solution and allows easy integration with life-saving technologies.



Customer Services

We all would like to offer our customers the best service we possibly can, and while you might be the best today, what about tomorrow? The KX-TDE offers service-orientated solutions that can be expanded to meet your customer's needs now and well into the future.



Administration

Public administrators see themselves today more than ever as service providers. Their services must be carried out in spite of the increasing pressure placed on governments, councils and municipal authorities to manage costs. Panasonic offers such establishments telecommunication solutions that help them maintain and keep their costs in check.



Production Enterprises

High flexibility, cost-performance and reliability as well as adjustment to individual needs are important criteria that communication platforms must fulfil. The KX-TDE outshines here as it was developed with manufacturing plants and production departments in mind. With its ultramodern design and future-ready solutions, experience a new dimension of efficient communication.



Construction

Customers like to only invest in well built products, display them attractively and place them within a delightful environment. These same guidelines should also be followed by your telecommunication systems. When it comes from Panasonic, you are sure that all these important points have been meticulously followed, so customers can be proud to own a Panasonic system.



Logistics

Logistics require the smooth and reliable transfer of information. This is why logistics companies have particular requirements when it comes to telecommunication systems. With the possibility of integration into CRM solutions and mobile accessibility, the KX-TDE can become the driving force for your business.



Legal

The legal industry of law firms, notaries, attorneys and solicitors etc have specific requirements when it comes to business communication. Attorney-Client conversation may need to be recorded. Or, clients may need to be billed for calls. Law firms may prefer to have secure entrances monitored via IP cameras. Panasonic's TDE addresses all these unique communication needs of the legal industry, yet provides them in a cost effective way.



Sales

In today's competitive world, personal contact becomes ever more important to the customer. Customer satisfaction, maximum flexibility and accessibility provide the crucial lead in this sector. With a solution from Panasonic, everything that you need is already built-in as standard equipment.



Office Communication Systems

KX-TDE100 / 200 / 600