

Panasonic

ideas for life



Office Communication Systems

บริษัท พี เอ บี เอ็กซ์ ไทย จำกัด
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เขตลาดพร้าว กรุงเทพฯ 10230
โทร. 0-2542-4227 แฟกซ์ 0-2542-4104

KX-TDE100
KX-TDE200
KX-TDE600



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 all their business communication needs today as well as in the future as they embrace Unified Communications together with full IP telephony. These systems are designed to be easy to install, cost effective to run and quickly provide a good return on investment.

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.

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Office Communication Systems

KX-TDE100/200/600



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-TDE Hybrid 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.

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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.





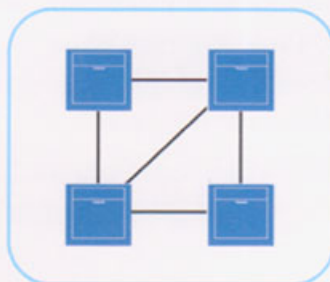
Streamline Business Networking

Panasonic KX-TDE unified communications solutions can help businesses lower costs, increase productivity and connect all office locations wherever they may be. The system is designed to effectively energise every aspect of the company communications, allowing you quick return on investment.

Multi-Site Networking for Flexible Communications

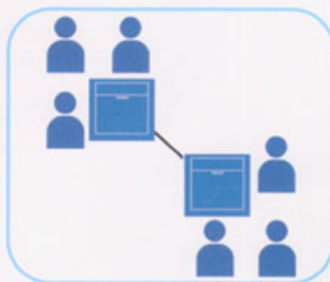
The KX-TDE leverage the latest digital networking, Voice over IP (VoIP) and SIP technologies to cost effectively handle intra-office, multi-site and long distance communications over converged voice and data networks.

With the KX-TDE system, customers can manage both stand-alone or networked systems connected via an IP network from any location.



Multi-Site Solutions

Multi-site networking helps customers with multiple branch sites to benefit from the lower costs of branch-to-branch communications by either leveraging their existing corporate Wide-Area-Networks (WANs) or using Managed VPN services available from network service providers. The system supports both SIP and H.323 based inter-networking in addition to the traditional ISDN QSIG connectivity.



Network Distribution Groups over Multi-Site Deployment

Incoming Call Distribution (ICD) groups can be set up across multiple networked KX-TDE systems. The system supports simultaneous or delayed ringing for enhanced flexibility.



Network Busy Lamp Field over Multi-Site Deployment

Network Busy Lamp Field (BLF) and Network Direct Station Selection (NDSS) allow unique extensions across networked KX-TDE systems to be monitored by a central Network Operator using DSS keys, showing the operator the status of that particular extension for across-the-network visibility.

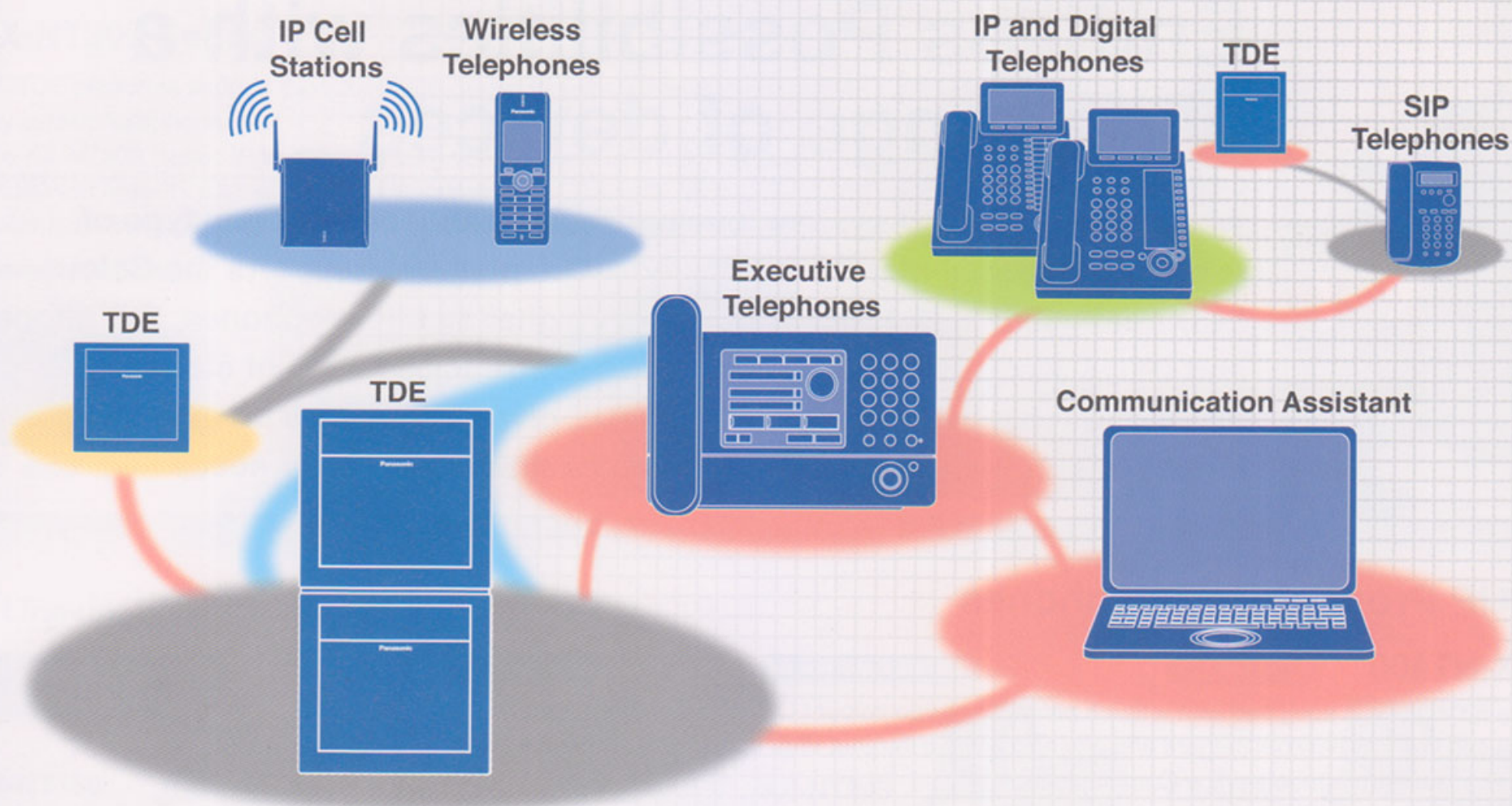


Remote Administration over IP Network

With the KX-TDE system, administrators can remotely manage any deployment scenario, whether a stand-alone system or a networked multi-site system connected over an IP network, using a networked PC with the necessary Unified Maintenance Console application. Virtually access and administer systems across the globe for quick adds/moves and changes.

Office Communication Systems

KX-TDE100/200/600



Access Unified Communications with any device

SIP Networking

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





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.



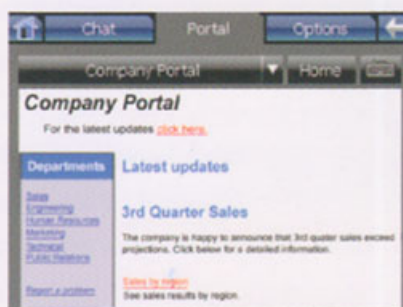
Network Camera Integration

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 telephone numbers.



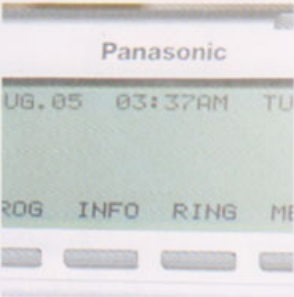
Office Communication Systems

KX-TDE100 / 200 / 600

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.



Back lit LCD



Self-Labeling Keys



Multi-Angle Adjustment



Easy To Navigate

Line-up

6-Line Back lit LCD & Self-Labeling

KX-NT366

- 6-Line Back lit 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 Back lit LCD

KX-NT346

- 6-Line Back lit 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 Back lit LCD

KX-NT343

- 3-Line Back lit 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)



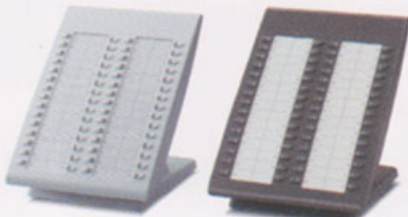
Options

Add-on Key Module



KX-NT303

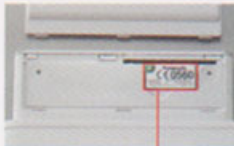
- Add-on 12-Key Module (For KX-NT346/343/ KX-DT346/343 only)



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 (Answer a call/End a call/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





Wireless Solution 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 Mobility Solution



Mobile phones are a compelling way for doing business outside of the office. The KX-TDE supports the latest mobile phone integration technology - enabling calls directed to an office extension to be redirected to a mobile telephone at a lower, fixed cost. Calls can also be transferred back to an office extension or to office voice mail system.

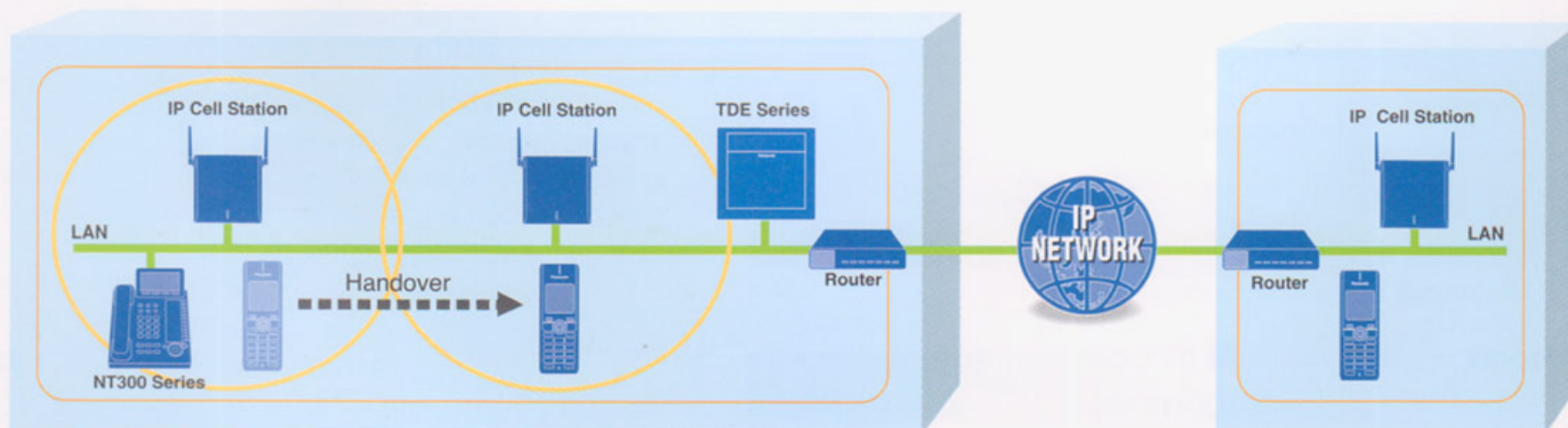
Employees with mobile phones can also initiate calls to their customer from their mobile phones that appear to the external customers as coming from the company rather than the mobile phone, thus centralising all business communications.

Mobile telephones can even be integrated into ICD groups which allows incoming calls to ring both the desk phone and the mobile handset simultaneously, and ultimately allows users to pick-up their calls on either their desk phone, thereby providing "one number" access and increasing contactability.

Multi-Cell DECT Wireless for Office Mobility Solution – KX-TCA175/275/355

The Panasonic office mobility solution lets you carry on your conversation over lightweight, business-smart 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 Station allows you to connect PBX via LAN.

If there is a LAN in your workplace, no need for special wiring to cell stations.

IP Cell Stations provide wireless solution for branch offices and long distance installation is on large premises.

Office Communication Systems

KX-TDE100 / 200 / 600

Enjoy Superb Mobility Whatever Your Business Demands

Whether you work in an office, a factory, a warehouse, a supermarket, or other large facility, the Multi-Cell DECT system keeps you in constant touch with colleagues and customers even when you are untethered and moving within the work environment. Communication can easily be further extended outside the office by enabling mobile integration functionality. Enjoy the freedom to communicate wirelessly with clear voice quality.



KX-TCA175
Standard Model



KX-TCA275
Compact Model

IP54
Dust & Splash
resistant



KX-TCA355
Tough Type Model

Colour
LCD

- Colour LCD Display*¹
- CTI application available*¹
- Illuminated Keypad
- Multiple Language Display
- Speakerphone
- Programmable Soft Keys
- PBX functionality support
- 200 Entry Phonebook
- Headset Compatible
- Vibrate Alert*²
- IP54 Dust and Splash resistant*³

*¹ KX-TCA175 and KX-TCA275 only
*² KX-TCA355 and KX-TCA275 only
*³ KX-TCA355 only
*IP5 = Dust resistance (Protection from dust penetration to a level that does not interfere with the operation of handset)
IP4 = Water resistance (Protection against splashing water)



KX-NCP0158
8ch IP Cell Station
LAN/IF



KX-TDA0158
8ch Cell Station
DPT/IF
KX-TDA0156
4ch Cell Station
CS/IF
KX-TDA0155
2ch Cell Station
DPT/IF



KX-A272
Used with Repeater,
the range can be
extended.



Anytime Anywhere Communication

As personal computers have become an essential business tool, Panasonic has developed TDE Series to seamlessly integrate with advanced desktop productivity applications for improved business efficiency.

Communication Assistant is a unified communication productivity software suite provides office staff with business tools to improve user and team productivity.

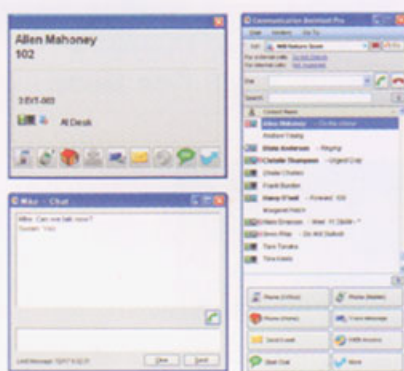
Communication Assistant Basic-Express/Pro For Personal Productivity

Communication Assistant productivity software is a highly intuitive PC based application suite that blends powerful point and click telphony 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

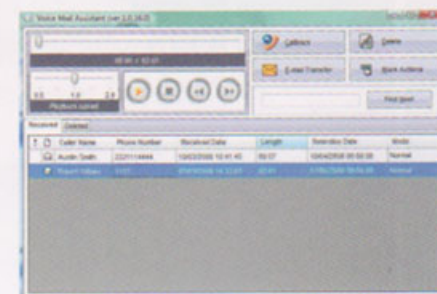
You can easily make calls using a customisable contact list that is displayed on your PC, and search for a desired contact simply and quickly. You can also see the phone status, PC status, and the absent message of your extensions from the contact list before you make call.



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.



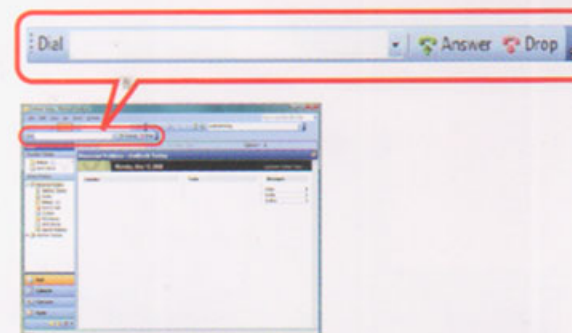
IP Softphone

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.



Communication Assistant (CA) Specification

	CA Basic Express	CA Pro	CA Operator Console	CA Supervisor
Maximum Users (PBX Only/With CA Server)	128/256	128/256	128/128	4/128
Built-in Licence	TDE100/200	10 (free additional licence)	4*	—
	TDE600	20 (free additional licence)	8*	—
Call Contact	10		1000	
Call History	10		1000	
Multi site communication (Networking)	No		Yes	
CRM Integration by TAPI	No		Yes	
Thin Client Support	Yes		Yes	

*60day trial installations

Office Communication Systems

KX-TDE100/200/600

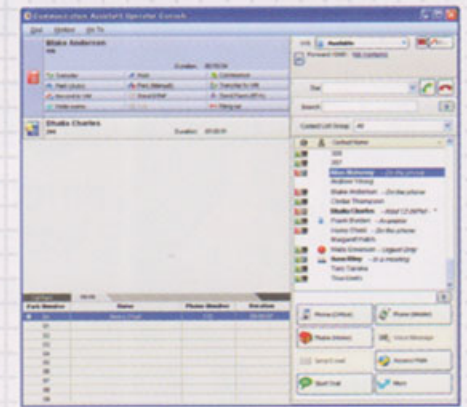
Communication Assistant Operator Console For Operator or Receptionist

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.

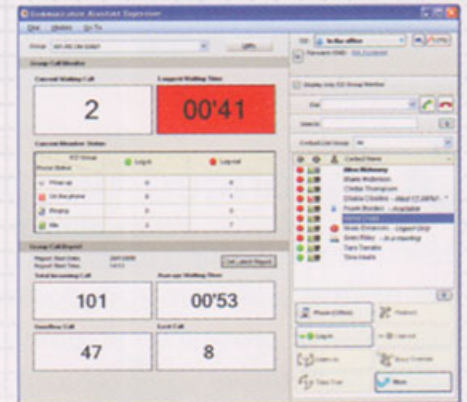
You can also easily forward calls using the drag and drop function displayed on your PC.



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.

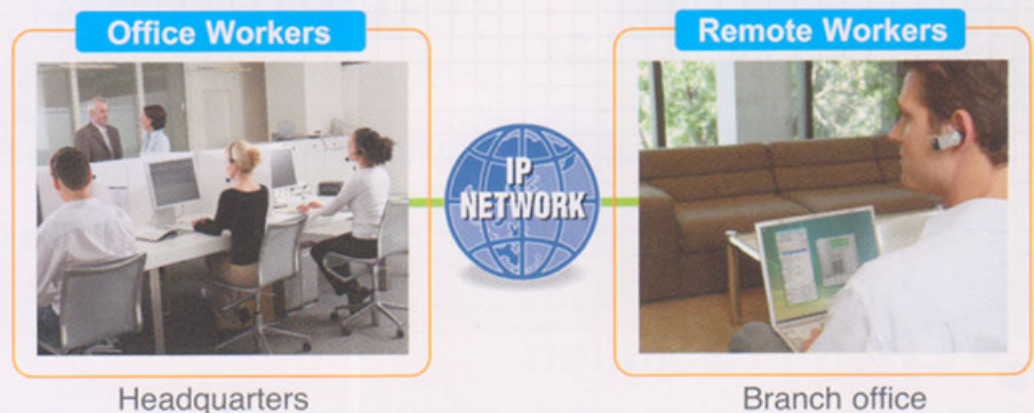
CA Supervisor can also monitor various important call center statistics.



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 maximum of 8 CA Servers can be connected to the network for widespread communication.



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.



Entrance



Reception

Integrating with Business Applications

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.





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 provide 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



KX-TVM50

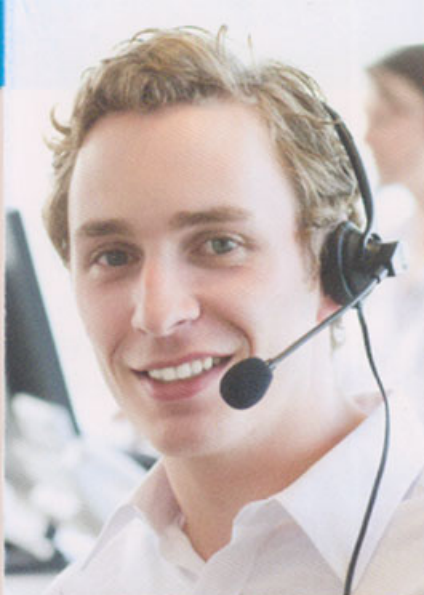


KX-TVM200

	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:2hours	Max:2hours	Max:2hours	Max:8hours	Max:1000hours
Number of Mailboxes	—	—	—	Max:64	Max:1024
Number of Messages	125	250	2x250	Unlimited	Unlimited

Office Communication Systems

KX-TDE100/200/600



Call Centre Solution

The KX-TDE comes with built-in sophisticated Call Centre solutions 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 success. Panasonic provides multiple solutions for small to medium Call Centres, to help control and make use of the limited resources that may be available. The following call centre features are integrated into the KX-TDE so that together with built-in Communication Assistant desktop productivity applications, it can solve most informal call centre business needs.

- Built-in Call Centre Features
- Intelligent and Automatic Call Routing
- Flexible Routing to Distribution Groups
- VIP Call Routing
- Automated Attendant
- Call Queue with Waiting Message
- Walking Extensions ('Hot Desking')
- Supervisor Call Queue Monitoring
- Supervisor Level Monitoring and Reporting
- Agent Log-in/Log-out/Wrap-up
- Call Park/Retrieve with Team Members
- CRM Integration (Integration with TAPI)

Furthermore, the solutions can be expanded to suit more sophisticated call centres in combination with CTI software solutions available in the market.



Intelligent Call Distribution

The KX-TDE supports Incoming Call Distribution (ICD) Groups, the basic building blocks to implement Call Centre functionality. Incoming calls received by an ICD group can be distributed to Call Centre agents using supported call distribution methods and, when a pre-programmed number of agents in the group are busy, additional incoming calls can be put in a queue. Agents can also be assigned to multiple ICD groups, allowing for a smaller number of agents to handle calls in multiple ICD groups in order to operate a flexible call centre.





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 perfectly 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 perfectly 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.



Office Communication Systems

KX-TDE100 / 200 / 600

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.



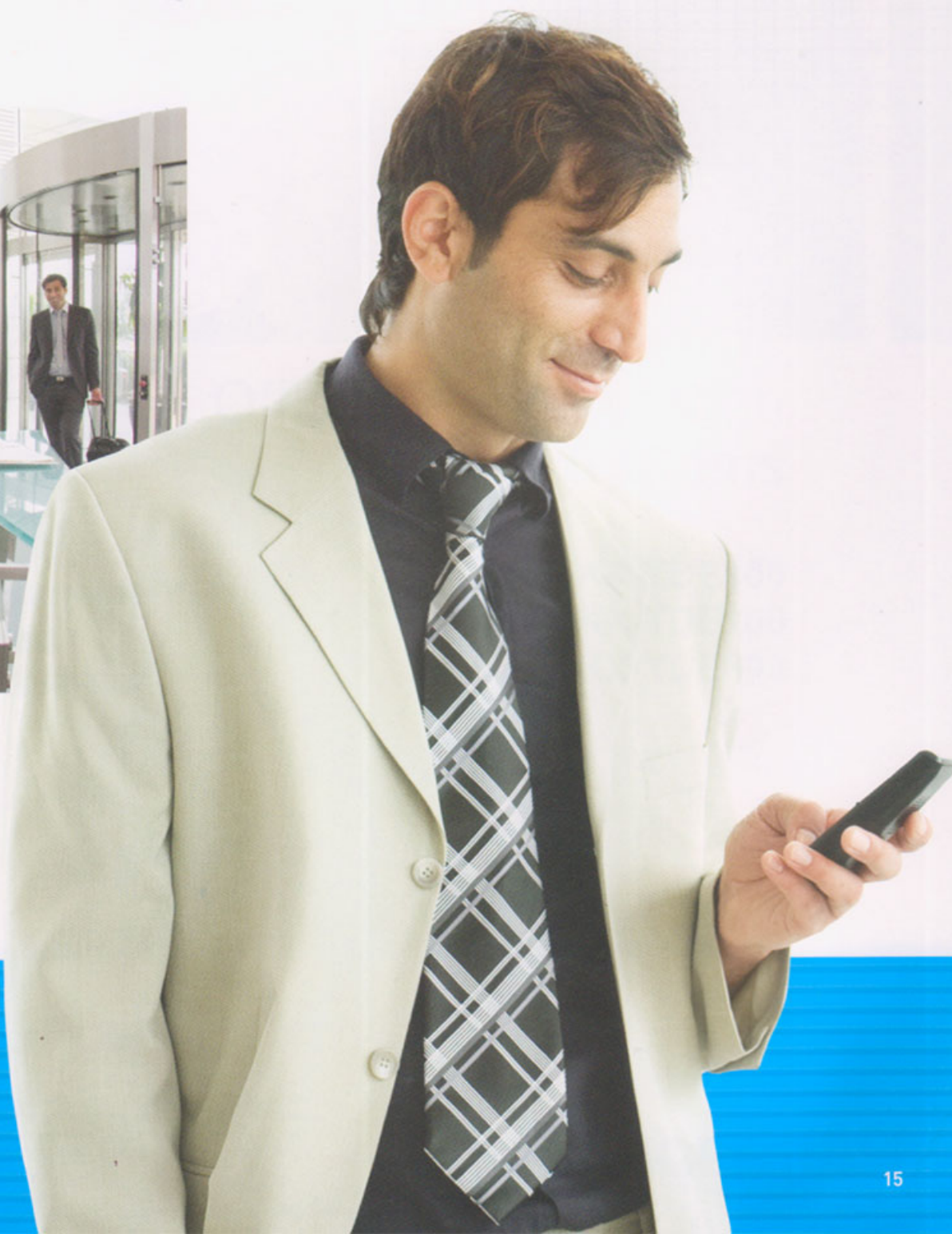
Legal

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.



Digital Proprietary Telephone Line-Up and Options

KX-DT300 Series

Line-up

6-Line Back lit LCD



KX-DT346

- 6-Line Back lit 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 Back lit LCD



KX-DT343

- 3-Line Back lit 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

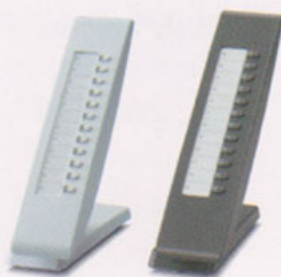


KX-DT321

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

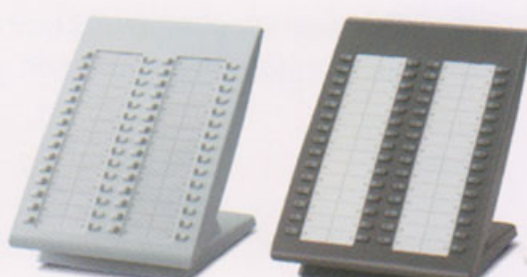
Options

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 (Answer a call/End a call/Voice communication).
(For KX-NT400/366/346/343 and KX-DT346/343 only)

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