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)

- **KX-DT343**
  - 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)

- **KX-DT333**
  - 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)

- **KX-DT321**
  - 1-Line LCD Display
  - 8 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)

**Options**

- **Add-on Key Module**

- **KX-NT303**
  - Add-on 12-Key Module (For KX-DT346/343/333/321 only)

- **KX-U1390**
  - USB Module (For KX-DT346/343/333/321 only)

- **KX-DT301**
  - 60-DSS Console (For KX-DT346/343/333/321 only)

- **Bluetooth® Module**

- **KX-NT307**
  - Bluetooth® Module (For KX-DT346/343/333/321 only)

**Mirroring the KX-NT307 lets you connect a commercially available Bluetooth headset for hands-free communication (answering calls/ending calls/voicing conversations). (For KX-DT346/343/333/321 only)**

- **USB Module**

- **KX-DT301**
  - 60-DSS Console (For KX-DT346/343/333/321 only)

- **KX-DT301**
  - 60-DSS Console (For KX-DT346/343/333/321 only)

- **KX-DT301**
  - 60-DSS Console (For KX-DT346/343/333/321 only)

- **KX-DT301**
  - 60-DSS Console (For KX-DT346/343/333/321 only)

**Important**

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

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- Panasonic

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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 also access intranet Web applications without a PC. All this makes for smooth office communication.

Colour LCD Touch Screen

Applications built-in

Bluetooth® Module

USB Port

Speakerphone

6-Line Backlit LCD & Self-Labelling

Options

Add-on Key Module

KX-NT303

• Add-on 12-Key Module (For KX-TDE 346/343 only)

KX-NT305

• Add-on 60-Key Module (For KX-TDC420 only)

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.

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
• 2-Ethernet Port
• Power-over-Ethernet (PoE)
• Hold, Transfer, Mute
• Speakerphone
• Caller ID & Call Log
• Voice mail waiting indicator

IP Conferencing phone

KX-NT700

• Full-feature network 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
Wireless Solutions for True Business Mobility

Businesses can increase employee availability and enhance customer service by providing unhindered 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.

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.

Personal Station Line-up

Cell Station Line-up

Repeater

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

Office Communication Systems

KX-TDE100 / 200 / 600

98
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 customizable 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.

**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.

**Voice Mail Assistant (VMA)**

Companies using the optional advanced KX-TV1M 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.

**Communication Assistant (CA Version 3) Specification**

<table>
<thead>
<tr>
<th>Maximum Users (PBX Only/With CA Server)</th>
<th>CA Basic-Express</th>
<th>CA Pro</th>
<th>CA Operator Console</th>
<th>CA Supervisor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Built-in Licence</td>
<td>TDE100/200</td>
<td>TDE100/200</td>
<td>TDE100/200</td>
<td>TDE100/200</td>
</tr>
<tr>
<td>Call/Contact</td>
<td>10</td>
<td>10</td>
<td>10</td>
<td>10</td>
</tr>
<tr>
<td>Call History</td>
<td>10</td>
<td>10</td>
<td>10</td>
<td>10</td>
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<tr>
<td>Multi-site communication (Networking)</td>
<td>N/A</td>
<td>N/A</td>
<td>Yes</td>
<td></td>
</tr>
<tr>
<td>CRM Integration by TAPI</td>
<td>N/A</td>
<td>N/A</td>
<td>Yes</td>
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<tr>
<td>Thin Client Support</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td></td>
</tr>
</tbody>
</table>

*60 day trial installations

**IP Telephony**

You can easily make calls using a customizable 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.

**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. Packed 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
- Queue Messages
- CO-to-CO End of Call Detection
- Mobile Phone Extension Support
- Caller ID/CLIP-based Greetings
- Call Screening
- Call Recording
- Holiday Service
- Multilingual Voice Prompts
- Fax Detection/Routing
- 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
- Queue Messages
- CO-to-CO End of Call Detection
- Mobile Phone Extension Support
- Caller ID/CLIP-based Greetings
- Call Screening
- Call Recording
- Holiday Service
- Multilingual Voice Prompts
- Fax Detection/Routing

Number of Ports

<table>
<thead>
<tr>
<th>Enhanced Simple Voice Mail (ESVM)</th>
<th>External Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Built-in</td>
<td>Optional</td>
</tr>
<tr>
<td>KX-TDA0192</td>
<td>KX-TDA0194</td>
</tr>
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<td>KX-TDA0192</td>
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<table>
<thead>
<tr>
<th>KX-TVM50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of Ports 2</td>
</tr>
<tr>
<td>Voice Storage Max: 2 hours</td>
</tr>
<tr>
<td>Number of Mailboxes 125</td>
</tr>
<tr>
<td>Number of Messages 125</td>
</tr>
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</table>

<table>
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<tr>
<th>KX-TVM200</th>
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</thead>
<tbody>
<tr>
<td>Number of Ports 4</td>
</tr>
<tr>
<td>Voice Storage Max: 2 hours</td>
</tr>
<tr>
<td>Number of Mailboxes 250</td>
</tr>
<tr>
<td>Number of Messages 250</td>
</tr>
</tbody>
</table>

Call Centre Solution

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.

Packed with Call Centre Features

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 meets 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-oriented 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 fulfill. 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.

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.

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.