New Telephony Systems Offering Solid IP Solutions

KX-TDE100
KX-TDE200

Office Communication Systems

Digital Telephones

KX-DT301
USB Model

KX-DT343 / KX-DT346 Telephone
Supports 1st Party TAPI Application

KX-DT346
Digital Proprietary Telephone
6-Line Back-lit Display
24-Programmable Keys
Full Duplex Speakerphone
USB Connection (optional)
Optional Bluetooth® module

KX-DT343
Digital Proprietary Telephone
3-Line Back-lit Display
24-Programmable Keys
Full Duplex Speakerphone
USB Connection
Optional Bluetooth® module

KX-DT390
Digital DSS Console (60 DSS)

Analogue Telephones

KX-T7710
Proprietary Telephone
8-Programmable Keys
Modem Data Port
Message Waiting LED
Ideal as an office or hotel room phone
One-touch Button Panel

KX-T7667
1-Line Display
12-Programmable Keys
Speakerphone

KX-NT303
Add-on Key Module (12 Co Keys)

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The Panasonic Full-IP PBX Debuts Together with Versatile New IP Phones.

A Pure IP PBX for an IP Platform and Traditional Telecom Lines.

Today's offices are shifting from traditional telecom systems to low-cost, flexible IP systems that take full advantage of the rapid growth in IP applications and globalization. The KX-TDE100 and KX-TDE200 can be used to construct a full-IP telecom system, making them a perfect match for these new communications systems. The KX-TDE100 and KX-TDE200 offer new, standard-equipped IP functions that boost efficiency and lower communication costs. They also include convenient and highly effective features such as wireless operation, voice mail and CTI. For companies planning to switch to a full-IP system, Panasonic IP-PBX systems offer a scalable, easy-to-use platform that adapts to a wide range of business fields for future expansion. In addition, these models also support traditional telecom lines, so they allow IP systems to be integrated with conventional telecom systems such as ISDN and analogue lines. Depending on the office environment, it may be difficult to switch an existing traditional telecom line to a full IP system all at once due to time and cost restrictions. The KX-TDE100 and KX-TDE200 respond with flexibility to needs like this. By changing the main board in the current TDA series, a new system can be easily constructed. This lets the KX-TDE100 and KX-TDE200 provide optimal solutions for companies that want to smoothly migrate to an IP system while continuing to use their existing telecom network.

Key features of the Panasonic KX-TDE100/TDE200

- **Full-IP compatibility**
  Low-cost, flexible IP system construction.
  Using an IP network to reduce costs.

- **Outstanding versatility**
  Because the KX-TDE100/TDE200 are compatible with existing infrastructure (Analogue/ISDN lines, etc.), they are ideal for offices that want a phased migration to an IP system.
  Partial incorporation of an IP system into a traditional telecom system. Switching to a full-IP system in the future.

- **Attractive system for TDA users**
  The functions of the newest TDE series can be used by simply replacing IPCMPR Card.
  TDA Upgrade TDE
Integiated Office Solutions and Business Productivity.

Voice Message
E-mail notification

Mobile Integrated Features
Wireless
DECT/2.4GHz

IP Networking
Converged voice, image and PC data

CTI
Phone Assistant
ACD Report Server
IP Phone

Migration path

Easy setup and maintenance

The TDE uses the same PC programming software operation that is used in the TDA series and supports multi-site programming. It is able to manage up to four TDEs on the network by PC operation.

Panasonic PBX IP Migration Strategy

IP Solutions
Pure IP PBX

Telecom Solutions
Hybrid IP PBX

Evolution from Telecom to IP

TDA Version-up
Replace IPCMPR cards

Central management of remote sites.

Voice Message
E-mail notification
Panasonic TDE Series...
Power Enhancing Features

The KX-TDE series Pure IP PBXs are advanced corporate communication systems providing IP telephony features and functionalities over both local and broadband IP networks. They are an ideal communication platform to help customers solve all their business telephony needs today as well as in the future as they embrace full IP telephony, empowered with the latest SIP technology.

New IP Features in the TDE

- **Full-IP compatibility**
  - Up to 128 IP-proprietary telephones and 64 IP-trunks with the optional DSP card.
  - Up to 128 standard SIP phones.
- **Support for the new IP-PT KX-NT500 series**
- **Fully equipped with KX-TDA functions and solutions**
- **Server connection**
  - The TDE series will connect DHCP/SNTP servers and SNMP manager as either client or agent.
- **Enhanced walking extension**
- **Easy Maintenance**
  - Using a PC Programming Software, with the same method as the TDA series.
  - 2 Built-in LAN ports

Server connection

The TDE supports the connection of the following, allowing for enhanced efficiency and record keeping:

- DHCP client for TDE
- SNMP Agent/Alarm
- SNTP client

Enhanced walking extension (Hot Desking)

It is possible to use any extension, and to have your extension setting available whenever you want it. This is a very useful feature when:

- You move locations
- There is no specific desk for you to use

Easy Maintenance

- Using the web interface of the Phone Manager software, both telephone users and system administrators can perform easy changes to the system
- 2 Built-in LAN ports

Ideal for TDA Series users

- Uses TDA’s option cards and inherits its easy operation.
- Simple setup
- Easy maintenance
- Full support of TDA features
- Upgradeable to TDE by changing the main card (IPCMPR card) in the TDA
**Panasonic Telephone Terminals Perfect For Any Business**

Panasonic provides a wide range of telephone terminals to suit your business needs, including Digital, IP, SIP, and DECT - All are compatible with Panasonic’s range of solutions. For businesses, personal contact with customers is a significant factor for success. Keeping in touch is at the heart of all communications - without any concern as to how the communication is conveyed: via IP, by traditional telephony or by employing wireless technology. What is crucial for businesses is quality and reliability. With such a wide choice of telephone terminals to choose from, Panasonic provides a solution suitable for all business industries including hospitality, health services, education, local council/government, sales, and much more.

**IP Telephony**

During the late 1990's the internet really began to change the way data was communicated and the telephone industry progressed to using Internet Protocol (IP) telephony. IP Telephony today is just as reliable, has many advanced features, and can be used in the home, local or remote office locations.
The Panasonic KX-NT500 Series advanced IP desktop phones are designed for business users who require a range of feature-rich telephony devices to complement their constantly changing business needs. Connected to a Panasonic Communication Platform these IP terminals are extremely reliable and provide a wide range of features to support the right solution for all your business applications. Ergonomically designed with features and functions to enhance users daily productivity, they are ideal for many applications including contact centre agents or advanced desktop applications supporting a range of wired and Bluetooth® headsets (NT560 only).

**KX-NT560**
- General Office / Executive Users
- 4.4” Monochrome LCD
- Paper Free Labeling
- Full-Duplex Speakerphone with Wideband Audio / HD Voice
- Built-in Bluetooth®
- Electronic Hook Switch (EHS)
- 2 Gigabit Ethernet ports, PoE
- Extended Handset Cords
- Low standby power consumption

**KX-NT556/553**
- IP Terminal for General Office Use
- 6/3-Line LCD Display
- Full-Duplex Speakerphone with Wideband Audio / HD Voice
- Paper Free Labeling
- Electronic Hook Switch (EHS)
- 2 Gigabit Ethernet ports, PoE
- Extended Handset Cords
- Low standby power consumption

**KX-NT546/543**
- IP Terminal for General Office Use
- 6/3-Line LCD Display
- Electronic Hook Switch (EHS)
- 2 Ethernet ports, PoE
- Extended Handset Cords
- Low standby power consumption

**KX-NT551**
- IP Terminal for Office Use
- 1-Line LCD Display
- Full-Duplex Speakerphone with Wideband Audio / HD Voice
- 2 Gigabit Ethernet ports, PoE
- Extended Handset Cords
- Low standby power consumption
Digital telephony was established in the 1980’s as a technological progression from the traditional analogue telephony system. It is reliable and provides a wide range of features.

The Panasonic KX-DT500 Series advanced desktop phones are designed for business users who require a range of feature-rich telephony devices to match their constantly changing business needs.

These easy to use, advanced business class telephone devices are designed for effective daily communications. Connected to the Panasonic IP PBX Communication platforms, the digital terminals are extremely reliable and provide a wide range of features to support the right solution for all your business applications.

**KX-DT546**
- 6-Line Backlit Display
- 24 Flexible CO Buttons
- Full-Duplex Speakphone with Wideband Audio
- Electronic Hook Switch (EHS) and 2.5 mm Port
- Add-on 48-Key Module (Optional: KX-DT590)

**KX-DT543**
- 3-Line Backlit Display
- 24 Flexible CO Buttons
- Full-Duplex Speakphone with Wideband Audio
- Electronic Hook Switch (EHS) and 2.5 mm Port
- Add-on 48-Key Module (Optional: KX-DT590)

**KX-DT521**
- 1-Line Backlit Display
- 8 Flexible CO Buttons
- Full-Duplex Speakphone with Wideband Audio
- Headset Jack (2.5 mm Port)

**OPTIONS FOR KX-NT**
- Add-on Key Module
  - KX-NT505
    - Add-on 48-Key Module (for KX-NT533 and KX-NT556 only)

**OPTIONS FOR KX-DT**
- Add-on Key Module
  - KX-DT590
    - Add-on 48-Key Module (for KX-DT543 and KX-DT546 only)
Tough Model
KX-TCA385

- 1.8 inch Colour LCD
- IP65 Compliant Dust Protection and Splash Resistance
- Shock Resistant *1
- Noise Reduction
- Printed Areas Peel Proof
- DECT Paging
- Call Log (PBX)
- 12 Flexible Keys
- 3 Soft Keys
- Speaker Phone (Full Duplex)
- Vibration
- Built-in Bluetooth®

*1 Sturdiness confirmed by dropping the handset 12 times from a height of 200 cm in an IEC60068-2-32 compliant test.

KX-TCA385
Tough model, reliable even in harsh environments

Ringer / charge LED
Strap hole
1.8 inch colour LCD with backlight
Key backlight
Microphone
Receiver
3 soft keys
Navigation key
Printed areas peel proof and easy to read

23mm*
15.5mm

Wall mountable charger

*Without belt clip
**Slim & Light Model**
**KX-TCA285**

- 1.8 inch Colour LCD
- Noise Reduction
- DECT Paging
- Call Log
- 12 Flexible Keys
- 3 Soft Keys
- Speaker Phone (Full Duplex)
- Vibration
- Built-in Bluetooth® (for the KX-TCA285)

**KX-TCA285**
Slim and light model ideal for offices with active movement

**KX-TCA185**
Standard model ideal for ordinary offices

### Cell Stations

- **KX-TDA0155**
  - Cell Station 2 speech path
- **KX-TDA0156**
  - PPT I/F Cell Station 4 speech path CS I/F
- **KX-TDA0158**
  - Cell Station 8 speech path
- **KX-NCP0158**
  - IP Cell Station 8 speech path

### Maximum Terminal Equipment

The following shows the number of each terminal equipment type supported by the PBX.

<table>
<thead>
<tr>
<th>Terminal Equipment Type</th>
<th>KX-TDE100/200</th>
<th>KX-TDE600</th>
</tr>
</thead>
<tbody>
<tr>
<td>Basic CS</td>
<td>32</td>
<td>128</td>
</tr>
<tr>
<td>High Density CS (KX-TDA0158)</td>
<td>16</td>
<td>64</td>
</tr>
<tr>
<td>IP CS (KX-NCP0158)</td>
<td>16</td>
<td>64</td>
</tr>
<tr>
<td>MDT (KX-NCP0158)</td>
<td>128</td>
<td>512</td>
</tr>
</tbody>
</table>

*KX-TDA0158 counts as 2 Cell Stations*

### DECT

**Required Equipment and Maximum Number of Calls**

<table>
<thead>
<tr>
<th>DECT Type</th>
<th>Connection Card</th>
<th>Maximum Calls</th>
<th>Compatible PSs</th>
</tr>
</thead>
<tbody>
<tr>
<td>KX-TDA0155</td>
<td>DLC, DDC</td>
<td>2</td>
<td>TCA185</td>
</tr>
<tr>
<td>KX-TDA0156</td>
<td>Cell Station I/F</td>
<td>4</td>
<td>TCA385</td>
</tr>
<tr>
<td>KX-TDA0158</td>
<td>DLC, DDC</td>
<td>8</td>
<td></td>
</tr>
<tr>
<td>KX-NCP0158</td>
<td>V-PCS</td>
<td>8</td>
<td></td>
</tr>
</tbody>
</table>
Providing customers with intelligent call handling through Computer Telephony Integration (CTI).

Communication Assistant enhances personal, team and business productivity.

Panasonic Communication Assistant

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

The Panasonic Communication Assistant productivity software suite is a highly intuitive PC based application suite. It blends powerful point and click telephony together with screen based presence, integration with Microsoft Outlook®, CRM desktop tools, and a great variety of other features 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.
CA Basic Express
Free Point and click Unified Communications for desk based or remote workers. CA Basic Express helps you visually control all your communications, including real-time presence, from your PC.

CA Pro
In addition to CA Basic the CA Pro provides users with advanced call history, contact and ICD group functionalities. It allows visual control of all your communications from a PC and you stay informed of users availability in different locations.

CA Supervisor
CA Supervisor is the perfect tool to monitor the call activities of your employees. It also helps you manage telephony activities of all your group members.

CA Operator Console
A company receptionist can use the PC based Operator Console to quickly and easily handle large volumes of calls - professionally, easily handling company communications between customers and colleagues. Call parking and extension management features are available.

VM Assistant
VM Assistant enables unified messaging and allows users to check their voicemail messages visually from a PC. It also allows you to forward messages to others as .wav files.
KX-TVM Key Features:
The KX-TVM50/TVM200 offer a host of voice messaging based features such as:
• Voice Messaging Service
• 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
• Called ID / CLIP based Greetings
• Call Screening
• Call Recording
• Holiday Service
• Multi-Lingual Voice Prompts
• Fax Detection / Routing

With the KX-TVM50 and KX-TVM200, Panasonic delivers new levels of communication with ease and efficiency that can help any business achieve high productivity.

Centralized Voice Mail

For networked multi-site deployments, centralized voice mail is possible for up to 8 networked TDE Pure IP PBX systems. Extension users from each branch site can forward calls when in a busy or no-answer state to the central voice messaging system and access messages by using VM access codes.

### KX-TVM50/200 Specifications

<table>
<thead>
<tr>
<th>KX-TVM50/200 Specifications</th>
<th>KX-TVM50</th>
<th>KX-TVM200</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of Ports</td>
<td>2 to 6</td>
<td>0 to 24</td>
</tr>
<tr>
<td>Voice Storage</td>
<td>Initial: 4h Max: 8h</td>
<td>Max. 1000h</td>
</tr>
<tr>
<td>Number of Mailboxes</td>
<td>Max. 64</td>
<td>Max. 1024</td>
</tr>
<tr>
<td>(including System Manager and Message Manager mailboxes)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Number of Messages</td>
<td>Unlimited</td>
<td></td>
</tr>
<tr>
<td>Memory Media</td>
<td>Flash Memory</td>
<td>HDD</td>
</tr>
<tr>
<td>Remote Modem</td>
<td>Modem Card [Max. 33,600 bps]</td>
<td></td>
</tr>
</tbody>
</table>
Informal Call Centre Systems

**IP Softphone**

**KX-NCS4208**

**Mobility**
Enjoy smooth communications through your PC with virtually the same level of functions that you would have if you had brought your office phone with you.

**Transparent Integration**
You can administer and operate IP telephones just like other extension telephones.

**Flexibility**
IP technology lets you send data and voice over the same line.

### Application Examples
- Allows your employees to access the full functionality of your office telephone extension anywhere, anytime
- Staff can work remotely, efficiently & transparently
- Your business can also benefit from greater organizational flexibility

### Around the world
For example, communicate with colleagues around the world with low cost and high efficiency.

### In home offices
For example, gain the same kind of benefits as if you had your own call centre right in your office at home.

### Transparent Integration
You can administer and operate IP telephones just like other extension telephones.

### Flexibility
IP technology lets you send data and voice over the same line.

### IP Softphone on PC Screen
- **User-friendly Display**
- **Dial Paste**
- **Icon for Compact mode**
- **Compact mode**
  - Message/Ringer Lamp (Dual Colour)
  - Ping Level Display
  - Programmable Keys with Red/Green LED
  - Time-Saving, Easy-to-Use Navigator Key
  - Record

### Softphone Specifications
- **Alphanumeric Display (LCD)**: 6 lines x 24 characters
- **Programmable Keys with Dual Colour LED**: Yes
- **Direct Station Selection (DSS) Keys with Busy Lamp Field (BLF)**: Yes
- **Call Waiting**: Yes
- **Record**: Yes
- **Station Speed Dial**: 10 Numbers
- **USB Headset with Audio Ringer on PC**: Yes
- **Peer to Peer Connection with NT300 Series**: Yes
Panasonic Office Communication Systems Are Ideal for Any Business, Any Location

For the majority of businesses, personal contact with the customer is a significant factor for success. The telephone system is at the heart of all communications – without any concern as to 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 wide variety of solutions to cover any individual requirements.

Hotel

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

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.

Administration

Public administrations see themselves today more than ever as service providers. Their services must be carried out in spite of the increasing pressure of cost management for government, council and municipal authorities. Panasonic offers such establishments a telecommunications solution which helps them maintain and keep their costs in check.

Medical

To be able to work effectively and comfortably in a medical environment, it is necessary that the telecommunication system is adapted perfectly to fit the needs of this type of activity. In the field of health, Panasonic alleviates the continual increase in costs and allows easy integration with life saving technologies.
Health Service

A telecommunication system in nursing facilities and resident housing must be consistent above all to the requirements of people in need. Panasonic offers custom-made solutions that can be integrated with computers to support administrative tools and emergency call systems. The investment ensures security by flexible, future-safe technology.

Customer Service

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? Panasonic Telecommunication systems offer service-orientated solutions, which can be expanded to meet your customer’s needs now and for days to come.

Production Enterprises

High flexibility, economy and maximum reliability as well as adjustment to individual needs are important criteria, which telecommunication systems 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.

Logistics

Logistics requires smooth and reliable transport of information. This is why logistics companies have particular requirements when it comes to telecommunications systems. With possibility for integration into modern EDP systems and mobile accessibility, the KX-TDE systems can become the driving force for your business today, tomorrow and in the future.

Legal

The legal industry of law firms, notaries, attorneys, 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. The KX-TDE addresses all these unique communication needs of the legal industry - yet provides all these and more solutions in a cost effective manner.
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