# Panasonic
## ideas for life

Hybrid IP-PBX
Systems

**KX-TDA100**
**KX-TDA200**
**KX-TDA600**

The intelligent business solution.

# Hybrid IP-PBX KX-TDA Telecommunication Platform:

Investment in a telecommunication system requires business communication foresight. 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. The Panasonic Hybrid IP-PBX TDA systems combine the advantages of traditional telecommunications with the convergence of IP technology offering maximum feature and functional flexibility to handle all your business communication needs - Today and in the Future.

## Makes Communications Easy

Panasonic digital telephones are stylish, easy to use, and efficient.

Features include a large, easy-to-read 6-line backlit LCD that can display up to 24 characters, an easy-to-view Message/Ringer Lamp, Navigator Keys for quick and easy operation, 4-step angle adjustment for greater comfort, and a USB terminal that provides simple plug-n-play connection with a PC.

## Cost-Cutting Performance

Any business could benefit from a low-cost, easy-to-use, and reliable inter-office networking system. Using a VoIP gateway, the Hybrid IP-PBX converts telephone voice signals into IP packets, making it possible for you to use VoIP technology even with existing telephone units. The Hybrid IP-PBX also supports the QSIG* protocol, making it effective for building a company-wide voice network. And Automatic Route Selection (ARS) saves money by choosing the most inexpensive calling route. Also, in addition to cutting costs, VoIP technology and networking give you easier access within networks.

- QSIG*
- Voice over Internet Protocol (VoIP)
- Automatic Route Selection (ARS)

* QSIG is an industry-standard digital networking protocol.

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## Efficiency You Can Appreciate

Our versatile solutions will bring a wide range of benefits to your company. Wireless technology allows you freedom of mobility so you can initiate or respond to important calls from anywhere in your office, and the messaging solution adds value to virtually all your services. Advanced call centre functions improve communication efficiency and allow you to serve customers more effectively. The Hybrid IP-PBX makes it easy to distribute calls, manage your telephone agents, and control office use of the phone system. Compatible with the CTI standard protocols, TAPI and CSTA, the Panasonic Hybrid IP-PBX can serve as the core of a powerful, high-value-added CTI system.

## Reliability

The reliability of the Panasonic Hybrid IP-PBX system is assured by a rigorous quality control system and extensive testing before it leaves the factory. The Hybrid IP-PBX is also designed for quick, easy maintenance to keep system downtime to an absolute minimum. You can change or add modules without switching off the system.

## An Affordable System that Adds Value to Your Business

The new Messaging Features offer greater flexibility. If short of staff, you can handle calls with the Automated Attendant Service. You can upgrade to Unified Messaging using CTI technology that can combine e-mail, fax and voice mail, giving you multi-media communication capabilities. You can even customise the Hybrid IP-PBX to meet the needs of different callers. By adding a Panasonic Voice Processing System, you can utilise additional features that are available only from Panasonic, such as Live Call Screening, Two-way Recording, and Two-way Transfer.

# Extreme Functionality

## Alphanumeric Display

Visual feedback on the user-friendly LCD display makes it easier to handle calls and perform other tasks. Use it to view a variety of information (see partial list below) or to access the Hybrid IP-PBX system's many features. Users can also make calls by simply following the visual prompts shown on the display.

- Incoming caller's name and number (ISDN, Caller ID)
- Message waiting, absent messages, feature settings
- Log of incoming and outgoing calls (Call Log)
- System/personal speed dialling
- Extension lists
- Call Duration
- Menu of system features
- Time and date

## Navigator Key

The navigator key allows fast, one touch, access to the multiple system functions.

## Programmable Keys

One-touch function access: the programmable soft keys save time and effort. These keys can be used to store telephone numbers, or frequently used feature access. The dual colour Red/Green LED's give visual indication of feature accessed as well as the status of colleagues whether they are available or busy on their phone.

## Hands Free Convenience

The built-in headset jack allows you to keep your hands free while taking important telephone calls, giving you the freedom and flexibility to work on your PC or take notes etc.

## eXtra Device Port (XDP) and Digital XDP (DXDP)

Use the XDP port to add an analogue phone, cordless phone, or other single-line device to your extension without the cost of an additional line. This lets you send a fax while talking to a customer. Or, by connecting a modem to the XDP port, you can access the Internet while you continue to use the telephone conversing with a client. The DXDP port allows you to add a second digital telephone to your extension allowing you to increase your system capacity without the need for additional optional extension cards and wiring.

## Ergonomic-Design, 4-Step, Tilt-Angle Adjustment

The display screen can be adjusted to four different viewing angles for optimum readability.

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## KX-NT136

- IP Proprietary Telephone
- 6-Line Back-lit Display
- 24-Programmable Keys
- Digital Duplex Speakerphone
- 2 Ethernet Ports
- Power Over Ethernet (POE)

## KX-T7636 with KX-T7603

- Digital Proprietary Telephone
- 6-Line Back-lit Display
- 24-Programmable Keys
- Digital Duplex Speakerphone
- USB Connection (optional)
- 12 additional programmable keys (KX-T7603)

## KX-T7633

- Digital Proprietary Telephone
- 3-Line Back-lit Display
- 24-Programmable Keys
- Digital Duplex Speakerphone
- USB Connection (optional)

## KX-T7630

- Digital Proprietary Telephone
- 3-Line Display
- 24-Programmable Keys
- Digital Duplex Speakerphone

## KX-T7625

- Digital Proprietary Telephone
- 24-Programmable Keys
- Digital Duplex Speakerphone

## KX-T7665

- 1-Line Display
- 8-Programmable Keys
- Speakerphone

## 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-T7640

- Digital DSS Console (60 DSS)

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# More selection

With its intelligent call-handling functions, the Panasonic Hybrid IP-PBX can serve as the core of a contact centre that efficiently and intelligently handles all business calls.

## Higher Productivity, Greater Customer Satisfaction

Desktop PC Integration improves call handling and provides added functionality for power users. A 'snap-in' high-speed USB module makes it easy to connect the digital telephone to your desktop or laptop computer.
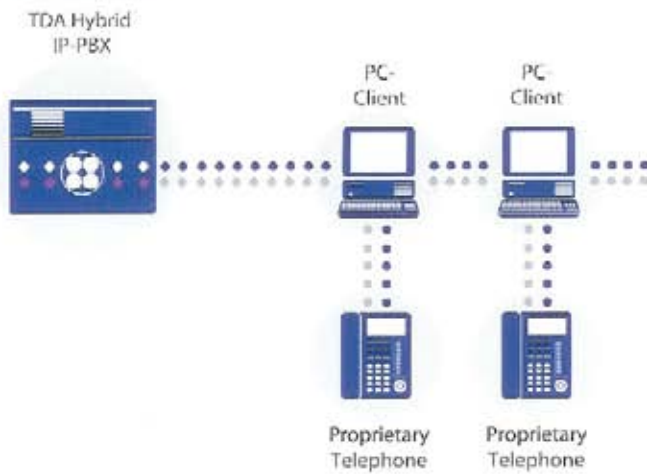
## User Productivity

Using PC Phone software, you can integrate your phone system with a database, giving you a powerful Customer Relationship Management (CRM) support tool. Selective or automatic Call Recording, Intelligent TAM, as well as Microsoft Outlook synchronisation are just a few of the exceptional features that can provide enhanced added functionality to telephony power-users in your company.

## Attendant Productivity

Productivity can be improved further by using the PC Console software application giving operator attendants the ability to answer and transfer calls and perform other routine call-handling duties by simple, visual drag-and-drop operations using a standard PC mouse or other similar pointing device.
The attendant can also take notes in the absence of a user. These notes pop-up when the user calls the attendant to retrieve the messages.

## 1st Party CTI

TDA Hybrid
IP-PBX

PC-
Client

PC-
Client

Proprietary
Telephone

Proprietary
Telephone

## 3rd Party CTI

TDA Hybrid
IP-PBX

CTI
Server

PC-
Client

PC-
Client

LAN

Proprietary
Telephone

Proprietary
Telephone
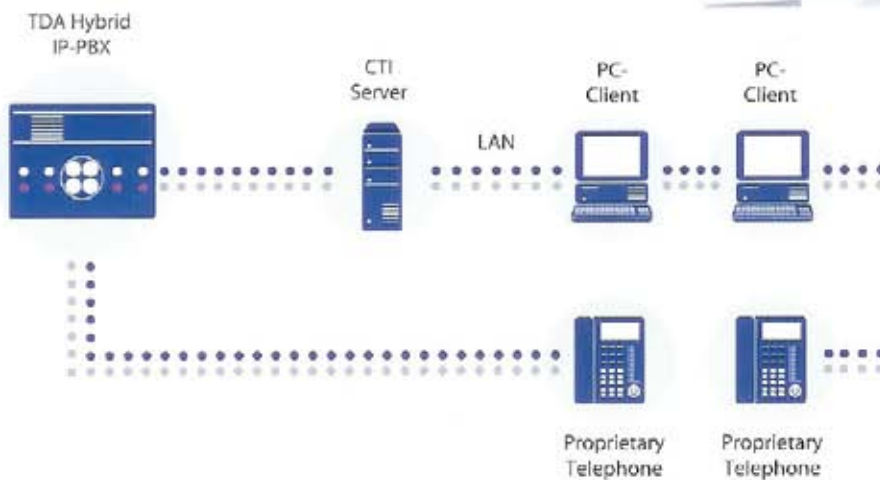
# More Freedom, Greater Clarity

Have you ever had an important customer on the phone and needed to walk away from desk? Panasonic Wireless DECT connectivity is here to help. The Panasonic Hybrid IP-PBX system lets you simply continue your current conversation over a lightweight, business-smart wireless telephone while you are away from your desk or moving around the office. Because the system is digital, the voice comes through loud and clear.

## DECT Mobility

The Hybrid IP-PBX system allows wireless communication over an extended range by using multiple cell stations that boost the flexibility and mobility of your wireless handset. Using the Wireless XDP, you can set your wireless telephone to have the same extension as your desk phone, and then receive calls even when away from the desk. You are always there, ready to receive your customers' calls, and make the most of every business opportunity that comes along.



## KX-TCA155 and KX-TCA255 - Features

- 6-line, Blue LCD Backlight
- Illuminated Keypad
- Multiple Language Display
- Speakerphone
- Programmable Soft Keys
- PBX functionality support
- 200 entry Phonebook
- Headset Compatible
- 9 polyphonic Ringer Melodies and 6 ringing patterns
- Vibrate Alert*
- Meeting Mode*

\* KX-TCA255 Only

## Flexible Access

The human voice remains the most effective mode of communication. We all know how frustrating it can be when trying to contact someone and the line is always busy or not answered. Panasonic has combined its knowledge of Call handling with their Intelligent PBX systems to ensure that calls from your customers can always be answered by someone, or voice messages can be left to request a follow-up call.

## Personal Mailboxes and email notification.

Using the advanced KX-TVM Messaging Solution - each Extension can be assigned its own personal mailbox that can be contacted any time of day or night. If a caller leaves a voice message for a user, the extension user is notified by a message-waiting lamp available on proprietary telephones or can be additionally notified via an e-mail with voice message attached sent to the user's personal computer. Incoming call information is also recorded with the message and is displayed on a Proprietary telephone. This information includes Callers telephone number, time of call, and length of call.

## The perfect service for your customers

Whatever the size of your company, efficient and courteous handling of telephone calls is a major factor in a successful business. Panasonic provides multiple solutions for Call Centres, to help control and make use of the limited resources that may be available. Use the Hybrid IP-PBX to automatically distribute incoming calls as desired. You can program the Hybrid IP-PBX to direct callers to the appropriate group for efficient call handling.

You can also assign a backup extension as an overflow destination for calls not answered within a specified period of time. You can designate any extension you want as the overflow destination—a company message box, for example—and you can designate different overflow destinations for when the PBX is in day, lunch, break, or night mode.

Other features—such as VIP Call, which provides special handling for key customers; Automated Attendant, which answers calls automatically; and queuing, which puts the caller on hold and plays messages and music when no one is available—help ensure greater customer satisfaction and prevent missed business opportunities.

The Hybrid IP-PBX provides a variety of call distribution patterns. Effective use of the different patterns – Uniform Call Distribution (UCD), Priority Hunting, and Simultaneous Ring – can help you manage calls more efficiently.

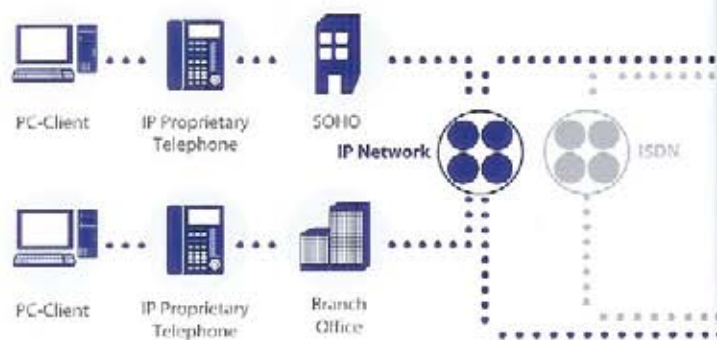Designated member extensions can "log in" to join their designated group and begin handling calls, or "log out" to exit the group temporarily, such as when taking a break. An extension can also be designated for use by the supervisor, who can access information about incoming calls to each group (the number of queued calls, the longest queuing time, etc.), check the log-in/log-out status, and monitor the status of group members.

# Integrating Voice and Data networks

IP Network infrastructures, which already exist in the majority of companies, can now carry voice along with data. Designed to support Convergence via modular structure, the Hybrid IP-PBX systems allow a harmonious migration towards VoIP, allowing voice and data communication to work within the same network.



PC-Client  IP Proprietary  SOHO  IP Network  ISDN
Telephone

PC-Client  IP Proprietary  Branch
Telephone  Office

VoIP/QSIG Network with Centralised operator

## Voice-over Internet Protocol (VoIP)

VoIP is the latest proven technology for voice communications where packets of digitally compressed voice are sent over IP data networks, which gets converted back to voice once it reaches the destination. By leveraging existing data networks, VoIP can bypass PSTN and therefore avoid all costs associated with PSTN calls no matter how far the distance and how long the conversation. In addition, VoIP also allows for more advanced telephony solutions and applications.

VoIP is an ideal solution for site-to-site communications between multi-site offices and retail chains - as well as for networking branch office and remote office employees, small office/home office (SOHO) workers, and home sales personnel, allowing for flexible working environment and lowering cost.

Network diagram labels:

Head Office

3rd Party CTI

TDA Hybrid IP-PBX

CTI Server

PC-Client

PC-Client

IP Proprietary Telephone

TDA Hybrid IP-PBX

Branch Office

Digital Proprietary Telephone

Digital Proprietary Telephone

Digital Proprietary Telephone

Analogue Proprietary Telephone

DECT Cell Station

DECT Handset
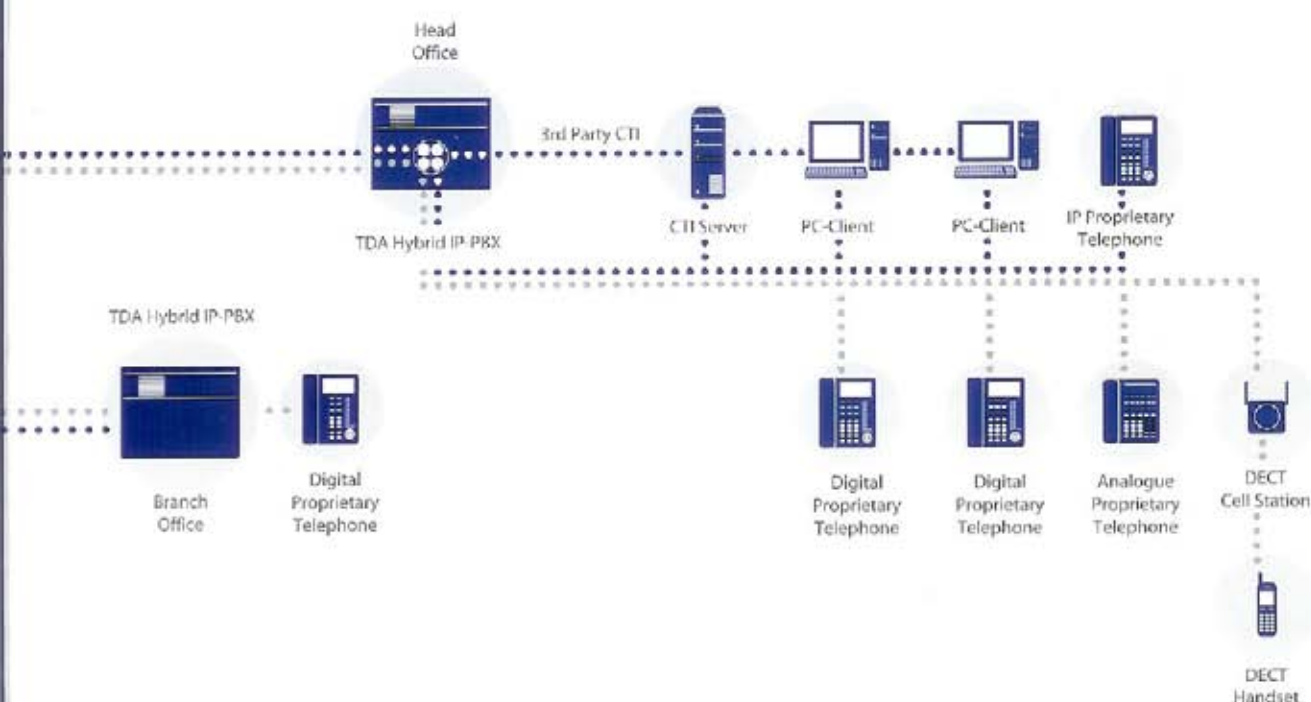
## IP Telephony

Customers interested in gradually evolving their businesses using IP telephony can benefit from the introduction of the new KX-NT136 IP telephone and IP Extension card.
Based on the familiar high-end Digital Proprietary Telephone, the KX-NT136 IP Telephone includes the familiar one touch feature access to:

- Call Hold
- Conference Call
- Call Transfer
- Call Forward

and many more...

Leveraging standard data-network cabling - and supporting Power-over-Ethernet (PoE), IP telephony can reduce your installation cost as well as make telephony available wherever there is a data network available.

Supporting a 6-line alphanumeric LCD display for user friendly feedback and feature visualisation, the KX-NT136 IP telephone is a perfect solutions for both office employees or remote workers / home workers.

## QSIG Networking

The KX-TDA Hybrid IP-PBX system supports QSIG protocol, allowing you to interconnect multiple PBX locations to build a large, effectively seamless virtual telephone system, as well as giving you access to more advanced communication functions. As an example, for customers with a legacy PBX in the corporate office, QSIG can be used to implement Panasonic Hybrid IP-PBXs in all the branch offices. Using the network numbering plan, you can assign a telephone number to each extension in a branch or head office, reducing communication costs.

# The possibilities are endless

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.

## 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.

## 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. The possibility of PC integration to allow guest room billing and system management has also become a requirement of this sector. The Hybrid IP-PBX Systems are perfectly equipped with all these necessary hospitality features and solutions.

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

## 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.

## 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.

## 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.

## Construction

Customers like to only invest in well built products, displaying 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.

## Production Enterprises

High flexibility, economy and maximum reliability as well as adjustment to individual needs are important criteria, which telecommunication systems must fulfil. The Panasonic Hybrid IP-PBX 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, Panasonic Hybrid IP-PBX 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 Panasonic Hybrid IP-PBX addresses all these unique communication needs of the legal industry - yet provides all these and more solutions in a cost effective manner.

With Panasonic the possibilities are endless.

**Panasonic**

# Panasonic
## ideas for life

# KX-TDA100
# KX-TDA200

## System Capacity

### Maximum Trunk and Extension Cards
The following number of trunk and extension cards can be installed in the Hybrid IP-PBX for expansion.

| Card Type | KX-TDA100 | KX-TDA200 |
|---|---|---|
| Trunk Card[*1] | 4 | 8 |
| Extension Card | 4 | 8 |
| Total | 5 | 10 |

*1 One T1, E1, PRI30, PRI23, or IP-GW4 card counts as 2 cards.

### Maximum Terminal Equipment

| Terminal Equipment Type | KX-TDA100[*1] | | KX-TDA200[*4] | |
|---|---|---|---|---|
| | Without MEC | With MEC | Without MEC | With MEC |
| Telephone[*2] | 88 | 152 | 176 | 304 |
|   SLT and PT | 64 | 128 | 128 | 256 |
|   Single Line Telephone (SLT) | 64 | 64 | 128 | 128 |
|   Proprietary Telephone (PT) | 64 | 128 | 128 | 256 |
|   IP-PT (Proprietary Telephone) | 64 | | 128 | |
| Direct Station Select (DSS) Console | 8 | | 8 | |
| Portable Station (PS) | 128 | | 128 | |
| Cell Station (CS) | 16 | | 32 | |
| Voice Processing System (VPS) | 2 | | 2 | |
| Doorphone | 8 | | 16 | |
| Door Opener | 8 | | 16 | |
| External Sensor | 8 | | 16 | |
| External Relay | 8 | | 16 | |
| Add-on Key Module | 64 | 128 | 128 | 256 |
| USB Module | 64 | | 128 | |
| PC Console | 8 | | 8 | |
| PC Phone | 64 | | 128 | |

*1 A single "T1-OPX (Off Premise Extension) port" or "BRI/PRI extension port" is counted as a wired telephone.
*2 For the maximum capacity, a Memory Expansion Card (MEC) and / or an M-Type Power Supply Unit may be required.
*4 For the maximum capacity, a Memory Expansion Card (MEC) and / or L-Type Power Supply Unit may be required.
Note - Please ask your dealer for maximum capacity and configuration.

**Line-up**
KX-TDA100 and KX-TDA200

## Option List

| | Model | Description | Maximum Quantity | |
|---|---|---|---|---|
| | | | KX-TDA100 | KX-TDA200 |
| MPR Option Cards | KX-TDA0105 | Memory Expansion Card (MEC) | 1 | 1 |
| | KX-TDA0196 | Remote Card (RMT) | 1 | 1 |
| Trunk Cards | KX-TDA0180 | 8-Port Analogue Trunk Card (LCOT8) | 4 | 8 |
| | KX-TDA0181 | 16-Port Analogue Trunk Card (LCOT16) | 4 | 8 |
| | KX-TDA0182 | 8-Port DID Card (DID8) | 4 | 8 |
| | KX-TDA0183 | 4-Port Analogue Trunk Card (LCOT4) | 4 | 8 |
| | KX-TDA0184 | 8-Port E&M Trunk Card (E&M8) | 4 | 8 |
| | KX-TDA0187 | T-1 Trunk Card (T1) | 2 | 4 |
| | KX-TDA0188 | E-1 Trunk Card (E1) | 2 | 4 |
| | KX-TDA0189 | 8-Port Caller ID/Pay Tone Card (CID/PAYE) | 8 | 16 |
| | KX-TDA0193 | 8-Port Caller ID Card (CID8) | 8 | 16 |
| | KX-TDA0284 | 4-Port Basic Rate Interface (BRI) Card (BRI4) | 4 | 8 |
| | KX-TDA0288 | 8-Port Basic Rate Interface (BRI) Card (BRI8) | 4 | 8 |
| | KX-TDA0290 | Primary Rate Interface (PRI) Card (PRI 23/PRI 30) | 2 | 4 |
| | KX-TDA0484 | 4-Channel VoIP Gateway Card (IP-GW4E) | 2 | 4 |
| | KX-TDA0490 | 16-Channel VoIP Gateway Card (IP-GW16) | 2 | 4 |
| Extension Cards | KX-TDA0170 | 8-Port Digital Hybrid Extension Card (DHLC8) | 4 | 8 |
| | KX-TDA0171 | 8-Port Digital Extension Card (DLC8) | 4 | 8 |
| | KX-TDA0172 | 16-Port Digital Extension Card (DLC16) | 4 | 8 |
| | KX-TDA0173 | 8-Port Single Line Telephone Extension Card (SLC8) | 4 | 8 |
| | KX-TDA0174 | 16-Port Single Line Telephone Extension Card (SLC16) | 4 | 8 |
| | KX-TDA0175 | 16-Port Single Line Telephone Extension with Message Lamp Card (MSLC16) | 4 | 8 |
| | KX-TDA0470 | 16-Channel VoIP Extension Card (IP-EXT16) | 4 | 8 |
| Option Cards | KX-TDA0161 | 4-Port Doorphone Card (for KX-T30865) (DPH4) | 2 | 4 |
| | KX-TDA0162 | 2-Port Doorphone Card (for German Type) (DPH2) | 4 | 8 |
| | KX-TDA0164 | 4-Port External Input/Output Card (EIO4) | 2 | 4 |
| | KX-TDA0166 | 16-Channel Echo Canceller Card (ECHO16) | 2 | 2 |
| | KX-TDA0168 | Extension Caller ID Card (EXT-CID) | 4 | 8 |
| | KX-TDA0190 | Optional 3-Slot Base Card (OPB3) | 2 | 4 |
| | KX-TDA0191 | 4-Channel Message Card (MSG4) | 2 | 4 |
| | KX-TDA0410 | CTI Link Card (TAPI/CSTA, 10Base-T) | 1 | 1 |
| Dect Options | KX-TDA0141CE | 2 Channel Cell Station Unit Using a DHLC/DLC Card (PT-interface CS) for DECT Portable Station | 16 | 32 |
| | KX-TDA0142CE | 4 Channel Cell Station Unit Using a CSIF Card for DECT Portable Station | 16 | 32 |
| | KX-TDA0143 | 4 Cell Station Interface Card (CSIF4) | 2 | 4 |
| | KX-TDA0144 | 8 Cell Station Interface Card (CSIF8) | 2 | 4 |
| Proprietary Equipment | KX-A228 | S-M-type Back-up Battery Cable | - | - |
| | KX-A229 | L-type Back-up Battery Cable | - | - |
| | KX-A258 | Blank Slot Cover | - | - |
| | KX-T30865 | Doorphone | 8 | 16 |
| Power Supply Unit | KX-TDA0103 | L Type Power Supply Unit for KX-TDA200 System | - | 1 |
| | KX-TDA0104 | M Type Power Supply Unit for KX-TDA200/TDA100 Systems | 1 | 1 |
| | KX-TDA0108 | S Type Power Supply Unit for KX-TDA100 System | 1 | - |
| Optional SD Memory Cards | KX-TDA0820 | SD Memory Card for Software Upgrade | - | - |
| | KX-TDA0920 | SD Memory Card for Software Upgrade to Enhanced Version | - | - |

## Specifications

| KX-TDA100/200 |
|---|

**Power Voltage:**
AC100V – 240V

**External Battery:**
+36V (+12V x 3), Built-in interface

**Memory Back-up Duration:**
7 years

**Dialling:**
Extension - DP (10pps, 20pps), DTMF
CO - DP (10pps, 20pps), DTMF

**Mode Conversion:**
DP-DTMF, DTMF-DP

**Connectors:**
CO Line - Amphenol Connector
Station - Amphenol Connector
External Paging Output - 2 conductor jack
External MOH Input - 2 conductor jack

**Ring Frequency:**
20 / 25 Hz (Selectable)

**Central Office Loop Limit:**
1600 ohms max.

**Operating Environment:**
Temperature - 0 - 40°C (32 - 104°F)
Humidity - 10 - 90%

**MOH (Music on Hold):**
2 ports
MOH # 1: External Music Source
MOH # 2: Internal Music / External Music Source
(Level control: -11dB – +11dB in 1dB steps)

**Internal Paging:**
Level control: -15dB – +6dB in 3dB steps

**External Paging:**
2 ports (Level control: -15dB – +15dB in 1dB steps)

**Serial Interface Port:**
USB: 1port  RS-232C: 1port (115.2kbps)

**Structure:**
Free Slot style
Can be accommodated into 19" Rack

**Dimensions:**
KX-TDA100: 334mm(W) x 360mm(H) x 270mm(D)
KX-TDA200: 430mm(W) x 415mm(H) x 270mm(D)

**Weight (when fully mounted):**
KX-TDA100 : Under 12 kg
KX-TDA200 : Under 16 kg

# System Feature Capacity

| System | | KX-TDA100 | KX-TDA200 |
|---|---|---|---|
| System | Tenant | 8 | |
| | Class of Service | 64 | |
| | Trunk Group | 64 | |
| | User Group | 32 | |
| | Paging Group | 32 | |
| | Call Pickup Group | 64 | |
| | Incoming Call Distribution (ICD) Group | 64 groups (32 extensions/group) | |
| | Portable Station (PS) Ring Group | 32 | |
| | VM (DPT) Group | 2 groups x 24 ch | |
| | VM (DTMF) Group | 2 groups x 32 ch | |
| | Queuing Time Table | 64 | |
| | Idle Extension Hunting Group | 64 groups (16 extensions/group) | |
| | Absent Message (System/Extension) | 8 messages x 16 characters per system<br>1 message x 16 characters per extension | |
| | Message Waiting | 512 | |
| | Number of characters for Display ID | 20 | |
| | Extension Number Digit | 1-4 | |
| | Call Park Area | 100 | |
| | Conference | 3x10 - 8x4 | |
| | Verified Code | 4 digits (1000 entries) | |
| | Verified Code Personal Identification Number (PIN) | 10 digits (1000 entries) | |
| | Special Carrier Code | 16 digits (20 entries) | |
| | Host PBX Access Code | 10 digits (10 entries/Trunk Group) | |
| | DDI/CID Table | 32 digits (1000 entries) | |
| | Station Message Detailed Recording (SMDR) Call Storage | 200 calls | |
| Toll Restriction / Barring | Toll Restriction / Barring Level | 7 levels | |
| | Toll Restriction / Barring Denied Code | 16 digits, 100 entries / level | |
| | Toll Restriction / Barring Exception Code | 16 digits, 100 entries / level | |

| | | KX-TDA100 | KX-TDA200 |
|---|---|---|---|
| Networking | TIE Routing Table | 32 entries | |
| | Leading Digits | 3 digits | |
| | PBX Code | 7 digits | |
| Automatic Route Selection (ARS) | Routing Plan Table | 16 entries | |
| | Leading Number Table | 16 digits (1000 entries) | |
| | Leading Number Exception Table | 16 digits (200 entries) | |
| | ARS Carrier | 10 | |
| | Itemised Billing Code | 10 digits | |
| | Authorisation Code | 10 digits | |
| Dialling | Emergency Call | 32 digits (10 entries) | |
| | Quick Dialling | 1-4 digits (80 entries) | |
| | System Speed Dialling | 32 digits (1000 entries) | |
| | Personal Speed Dialling | 32 digits (10 entries/extension) | |
| | One-Touch Dialling | 32 digits | |
| | Hot Line | 32 digits | |
| | ISDN Service Access | 32 digits | |
| | Redial | 32 digits | |
| Password | System Password for Administrator | 4-10 digits | |
| | System Password for User | 4-10 digits | |
| | Manager Password | 4-10 digits | |
| | Extension Personal Identification Number (PIN) | 0-10 digits / extension | |
| Call Log | Outgoing Call Log | 0-100 logs / Extension<br>2160 logs / system | |
| | Incoming Call Log | 0-100 logs / Extension<br>4960 logs / system | |

# Feature List

## System Features
- Automatic ISDN Setting (BRI)
- Automatic Route Selection (ARS)/Least Cost Routing (LCR)
- Background Music (BGM)
- Budget Management
- Busy on Busy
- Call Park with Indication
- Call Pickup Group
- Calling Line Identification Distribution (CLID)
- Class of Service (COS)
- CTI (CSTA, TAPI)
- Data Line Security
- Delayed Ringing
- Direct In Lines (DIL)
- Direct Inward Dialling (DID)
- Direct Inward System Access (DISA)
- Door-Phone/Door Opener
- Echo Cancellation
- Extension Lock
- External Sensor/Relay for Alarm Notification
- Emergency Call
- Existing APT/DPT Compatibility
- External BGM
- Flexible Numbering Plan (4 digits)
- Floating Extension
- Greeting Message
- Host PBX Access Code
- Hunting Group
- Hurry-Up Transfer
- Incoming Group (Hunting Group)
- Intercept Routing - Busy/DND
- Intercept Routing - No Answer
- Intercept to Trunk
- Main Processing (MPR), Card/CS Software Download
- Manager Functions
- Multiple Language Support
- Online Diagnostics
- Operator Functions
- PC Console/PC Phone
- PC Programming
- Paging Group
- Quick Setup
- Remote Alarm Notification
- Remote Extension Status Control through DISA
- Remote Extension Lock
- Ring Group
- Special Carrier Access
- Station Message Detail Recording (SMDR)
- System Memory Expansion
- Tenant Service
- Timed Reminder
- Time Service (Day/Night/Lunch/Break)
- Toll Restriction
- Trunk Group
- Uniform Call Distribution (UCD)
- User Group
- VIP-Call
- Visual Caller ID

## <Voice Mail (VM) Features>
- Automatic Configuration - Quick Setup
- Call Forwarding to VM
- Caller's Identification Notification to VM
- E-mail Integration[1]
- Intercept Routing to VM
- Live Call Screening (LCS)
- Remote PBX Data Control by VM
- Telephone Display, Menu driven VM operation
- VM Data Control by PBX
- VM (Digital/DTMF) Integration
- VM Group
- VM Mail Transfer
- VM Menu on the LCD[1] (KX-T7636/T7633 only)

## Extension Features
- 4-Party Conference with Broadcasting up to 32-Party
- Absent Message
- Account Code Entry (Forced)
- Automatic Redial
- Boss - Secretary
- Broadcasting
- Caller ID to SLT
- Call Forwarding (All Calls, Busy, Busy/No Answer, No Answer, Follow Me, From Incoming Group)
- Call Hold
- Call Pickup (Directed, Group, DSS, Deny)
- Call Transfer (Screened, Unscreened, One-Touch Transfer, Transfer Recall)
- Conference (3-Party Conference, Multi Party Conference, Unattended Conference)
- Dial Type Selection
- Digital Duplex SP-phone
- Digital eXtra Device Port (DXDP)[2] (2DPTs in One Extension Port)
- Direct One-Touch Answering
- Do Not Disturb (DND)
- DSS Console
- Executive Busy Override
- Extension Directory
- Extension-to-Trunk Call Duration Time
- External Feature Access
- Flexible Buttons
- Hands-free Operation
- Handset/Headset Selection
- Large Telephone Display Features with Back-lit
- LED control for CTI
- Log-In/Log-Out
- Message Waiting
- Multi-Lingual Display
- Multiple Hop Call Forwarding (4 steps)
- Music on Hold
- Off-Hook Call Announcement (OHCA)[2]
- Off-Hook Monitor
- One-Touch Dialling
- Paging (Deny, Paging Transfer)
- Paralleled Telephone (APT/DPT+SLT, DPT/SLT+PS)
- Redial, Last Number
- Remote Station Control
- Special Carrier Access
- Speed Dialling - Personal/System

## (right column)
- Time and Date Display
- Tone-Pulse Conversion
- Trunk Answer from Any Station (TAFAS)
- Walking Class Of Service (COS)
- Whisper OHCA (Off Hook Call Announcement)
- Wrap-Up
- eXtra Device Port (XDP)

### <DECT Features>
- Automatic Handover
- DECT CS on Digital Extension Port
- Headset Compatibility
- Incoming & Outgoing Call Log
- Telephone Display control via CTI[2]
- Wireless XDP Parallel Mode
- Vibrator Ring (KX-TCA255 only)

### ISDN Service Features
- Advice of Charge (AOC)
- Call Hold (HOLD)
- Calling Line Identification Restriction (CLIR)
- Calling Line Identification Presentation (CLIP)
- Completion of Calls to Busy Subscriber (CCBS)
- Connected Line Identification Presentation (COLP)
- Connected Line Identification Restriction (COLR)
- Direct Dialling Inward (DDI)
- ISDN 3 Party Conference (3PTY)
- ISDN Call Forward (CFU/CFNR/CFB)
- ISDN Call Transfer (CT)
- ISDN Extension
- Malicious Call Identification (MCID)
- Multiple Subscriber Numbers (MSN)

### Networking Features
- Alternated Routing
- ARS with VoIP
- DISA Call to the Network
- Network Busy Lamp Field (BLF)[2]
- Network Closed Numbering
- Private Network to Public Network
- Public Network to Private Network
- QSIG Connection
- Tandem Connection
- TIE Line
- Transfer to Network PBX
- Virtual Private Network (VPN)
- VoIP Network (Built-in IP-GW)

### Built-In Hotel Features
- Call Billing for Guest Room
- Remote Wake-up Call
- Room Status Control
- SMDR for External Hotel Application

[1] When the KX-TDA Hybrid IP-PBX is integrated with a KX-TVM50 or KX-TVM200 Voice Processing System.
[2] This feature is unavailable with the KX-NT136
[3] Optional software required.
DPT : Digital Proprietary Telephone
APT : Analogue Proprietary Telephone
SLT : Single Line Telephone

# Panasonic
## ideas for life

# KX-TDA600

## System Capacity

| | | | KX-TDA600 | | | |
|---|---|---|---|---|---|---|
| | | | Basic System | 2 Shelf System | 3 Shelf System | 4 Shelf System (Max) |
| Telephone | | Without DXDP* | 160 | 320 | 480 | 640 |
| | | With DXDP* | 240 | 480 | 720 | 960 |
| | Single Line Telephone (SLT) | | 160 | 320 | 480 | 640 |
| | KX-T7600 series Digital Proprietary Telephone (DPT) | | 160 | 320 | 480 | 640 |
| | Other DPT | | 128 | 256 | 384 | 512 |
| | Analogue Proprietary Telephone (APT) | | 80 | 160 | 240 | 320 |
| | IP-PT (Proprietary Telephone) | | 160 | 320 | 480 | 640 |
| Trunks | Trunk Port | | 160 | 320 | 480 | 640 |
| | ISDN Trunk | | 160 | 320 | 480 | 640 |
| | Analogue Trunk | | 160 | 320 | 480 | 640 |
| | IP-Gateway | | 160 | 320 | 480 | 640 |
| Direct Station Select (DSS) Console | | | 64 | | | |
| Portable Station (PS) | Without Memory Expansion Card | | 256 | | | |
| | With Memory Expansion Card | | 512 | | | |
| Cell Station (CS) | | | 32 | 64 | 96 | 128 |
| Voice Processing System (VPS) | | | 8 | | | |
| Doorphone | | | 16 | 32 | 48 | 64 |
| Door Opener | | | 16 | 32 | 48 | 64 |
| External Sensor | | | 16 | 32 | 48 | 64 |
| External Relay | | | 16 | 32 | 48 | 64 |
| Add-on Key Module | | | 160 | 320 | 480 | 640 |
| USB Module | | | 160 | 320 | 480 | 640 |
| PC Console | | | 8 | | | |
| PC Phone | | | 128 | | | |

*DXDP: Digital eXtra Device Port.

**Line-up**
KX-TDA600 and the optional Expansion Shelf KX-TDA620 (Max 3 + TDA600)

## Option List for TDA600

| | Model | | Description |
|---|---|---|---|
| Cabinet | KX-TDA600 | | Basic Shelf (Main Unit) |
| | KX-TDA620 | | Expansion Shelf Bus Slave Connection Circuit added initially (BUS S) |
| EMPR | Daughter cards for EMPR card only | KX-TDA6105 | Memory Expansion Card (EMEC) |
| | | KX-TDA0196 | Remote Card (RMT) |
| Inter Connection | KX-TDA6110 | | Shelf Connection Card for Basic Shelf (BUS M) |
| | KX-TDA6111 | | Additional Card for connecting Expansion Shelf 2 and 3 (BUS ME) Mounted onto Bus M Card |
| Trunk Cards | KX-TDA6181 | | 16-Port Analogue Trunk Card (ELCOT16) |
| | Daughter cards for ELCOT cards only | KX-TDA0189 | 8-Port Caller ID / Pay Tone Card (CID / PAY8) |
| | | KX-TDA0193 | 8-Port Caller ID Card (CID8) |
| | KX-TDA0182 | | 8-port Direct Dialling In (DID) Card (DID8) |
| | KX-TDA0184 | | 8-Port E&M Trunk Card (E&M8) |
| | KX-TDA0187 | | T-1 Trunk Card (T1) |
| | KX-TDA0188 | | E-1 Trunk Card (E1) |
| | KX-TDA0284 | | 4-Port Basic Rate Interface (BRI) Card (BRI4) |
| | KX-TDA0288 | | 8-Port Basic Rate Interface (BRI) Card (BRI8) |
| | KX-TDA0290 | | Primary Rate Interface (PRI) Card (PRI23/PRI30) |
| | KX-TDA0484 | | 4-Channel VoIP Gateway Card (IP-GW4E) |
| | KX-TDA0490 | | 16-Channel VoIP Gateway Card (IP-GW16) |
| Extension Cards | KX-TDA0170 | | 8-Port Digital Hybrid Extension Card (DHLC8) |
| | KX-TDA0171 | | 8-Port Digital Extension Card (DLC8) |
| | KX-TDA0172 | | 16-Port Digital Extension Card (DLC16) |
| | KX-TDA0173 | | 8-Port Single Line Telephone Card (SLC8) |
| | Daughter card for SLC8 card only | KX-TDA0168 | 8-Port Analogue Extension Caller ID card (EXT-CID8) |
| | KX-TDA6174 | | 16-Port Single Line Telephone Card (ESLC16) |
| | KX-TDA6175 | | 16-Port Single Line Telephone Card with Message Lamp (EMSLC16) |
| | KX-TDA0470 | | 16-Port IP PT Extension Card (IP-EXT16) |
| Option Cards | KX-TDA0190 | | Optional 3-Slot Base Card (OPB3) |
| | KX-TDA0410 | | CTI Link Card (TAPI / CSTA, 10Base-T) |
| | KX-TDA6166 | | 16-Channel Echo Canceller Card (EECHO16) |
| | Daughter cards for OPB3 card only | KX-TDA0161 | 4-Port Doorphone Card (for KX-T30865) (DPH4) |
| | | KX-TDA0162 | 2-Port Doorphone Card (for German Type) (DPH2) |
| | | KX-TDA0164 | 4-Port External sensor Card (EIO4) |
| | | KX-TDA0191 | 4-Channel Message Card (MSG4) |
| Dect Options | KX-TDA0141 | | 2-Channel Cell Station Unit Using a DHLC / DLC Card for DECT Portable Station |
| | KX-TDA0142 | | 4-Channel Cell Station Unit Using a CSIF Card for DECT Portable Station |
| | KX-TDA0143 | | 4 Cell Station Interface Card (CSIF4) for TDA0142 |
| | KX-TDA0144 | | 8 Cell Station Interface Card (CSIF8) for TDA0142 |
| Proprietary Equipment | KX-A228 | | S/M-type Back-up Battery Cable |
| | KX-A229 | | L-type Back-up Battery Cable |
| | KX-A258 | | Blank Slot Cover |
| | KX-T30865 | | Doorphone |
| Power Supply unit | KX-TDA0103 | | Large Power Supply Unit (L-PSU) |
| | KX-TDA0104 | | Medium Power Supply Unit (M-PSU) |
| Other | KX-TDA6920 | | SD Card containing Enhanced Feature Upgrades |
| | KX-TDA6201 | | Mounting Kit - Contains 4 x Wall Mounting Plates, 4 x Feet, and Screws |

## Specifications

| KX-TDA600 |
|---|

**Power Voltage:**
AC100V ~ 240V

**External Battery:**
+36V (+12V x 3), Built-in interface

**Memory Back-up Duration:**
7 years

**Dialling:**
Extension - DP (10pps, 20pps), DTMF
CO - DP (10pps, 20pps), DTMF

**Mode Conversion:**
DP-DTMF, DTMF-DP

**Connectors:**
CO Line - Amphenol Connector
Station - Amphenol Connector
External Paging Output - 2 conductor jack
External MOH Input - 2 conductor jack

**Ring Frequency:**
20 / 25 Hz (Selectable)

**Central Office Loop Limit:**
1600 ohms max.

**Operating Environment:**
Temperature - 0 - 40°C (32 - 104°F)
Humidity - 10 - 90%

**MOH (Music on Hold):**
2 ports
MOH # 1: External Music Source
MOH # 2: Internal Music / External Music Source
(Level control -11dB ~ +11dB in 1dB steps)

**Internal Paging:**
Level control -15dB ~ +6dB in 3dB steps

**External Paging:**
2 ports (Level control -15dB ~ +15dB in 1dB steps)

**Serial Interface Port:**
USB: 1 port   RS-232C: 1port (115.2kbps)

**Structure:**
Free Slot style
Can be accommodated into 19" Rack

**Dimensions:**
Basic Shelf : 430mm(W) x 415mm(H) x 270mm(D)
Expansion Shelf : 430mm(W) x 415mm(H) x 270mm(D)

**Weight (when fully mounted):**
Basic Shelf :Under 16 kg
Expansion Shelf : Under 16 kg

# System Feature Capacity

| | | KX-TDA600 |
|---|---|---|
| System | Tenant | 8 |
| | Class of Service | 64 |
| | Trunk Group | 96 |
| | User Group | 96 |
| | Paging Group | 96 |
| | Call Pickup Group | 96 |
| | Incoming Call Distribution (ICD) Group | 128 groups (128 extensions / group) |
| | Portable Station (PS) Ring Group | 32 |
| | Voice Mail (DPT) Group | 8 groups × 24 ch |
| | Voice Mail (DTMF) Group | 8 groups × 32 ch |
| | Queuing Time Table | 128 |
| | Idle Extension Hunting Group | 128 groups (16 extensions / group) |
| | Absent Message (System / Extension) | 8 messages × 16 characters per system / 1 message × 16 characters per extension |
| | Message Waiting | 1672 (1032: PT+SLT) + (640: ICDG+PS) |
| | Number of the characters for Display ID | 20 |
| | Extension Number Digits | 1 - 5 |
| | Call Park Area | 100 |
| | Conference | 3×10 - 8×4 per shelf |
| | Verified Code | 4 digits (1000 entries) |
| | Verified Code Personal Identification Number (PIN) | 10 digits (1000 entries) |
| | Special Carrier Code | 10 digits (100 entries) |
| | Host PBX Access Code | 10 digits (10 entries / Trunk Group) |
| | DDI / DID Table | 32 digits (1000 entries) |
| | Station Message Detailed Recording (SMDR) Call Storage | 1000 calls w/o EMEC card / 4000 calls w EMEC card |
| Toll Restriction / Barring | Toll Restriction / Barring Level | 7 levels |
| | Toll Restriction / Barring Denied Code | 16 digits, 100 entries / level |
| | Toll Restriction / Barring Exception Code | 16 digits, 100 entries / level |
| Networking | TIE Routing Table | 32 entries |
| | Leading Digits | 3 digits |
| | PBX Code | 7 digits |

| | | KX-TDA600 |
|---|---|---|
| Automatic Route Selection (ARS) | Routing Plan Table | 48 entries |
| | Leading Number Table | 16 digits (1000 entries) |
| | Leading Number Exception Table | 10 digits (200 entries) |
| | ARS Carrier | 48 |
| | Itemized Billing Code | 10 digits |
| | Authorisation Code | 10 digits |
| Dialling | Emergency Call | 32 digits (10 entries) |
| | Quick Dialling | 4 digits, 80 entries w/o EMEC card (4 digits, 80 entries) – (8 digits, 1000 entries) w EMEC card |
| | System Speed Dialling | 32 digits, 1000 entries per system w/o EMEC card / 32 digits, 1000 entries per Tenant w EMEC card Max 8 Tenants |
| | Personal Speed Dialling | 32 digits, 10 entries per extension w/o EMEC / 32 digits, 100 entries per extension w EMEC |
| | One-Touch Dialling | 32 digits |
| | Hot Line | 32 digits |
| | ISDN Service Access | 32 digits |
| | Redial | 32 digits |
| Password | System Password for Administrator | 4-10 digits |
| | System Password for User | 4-10 digits |
| | Manager Password | 4-10 digits |
| | Extension Personal Identification Number (PIN) | 0-10 digits / extension |
| Call Log | Outgoing Call Log | 0-100 logs / extension / 5700 logs / system |
| | Incoming Call Log | 0-100 logs / extension / 1,7000 logs / system |

# Features List

## System Features
- Automatic ISDN Setting (BRI)
- Automatic Route Selection (ARS) / Least Cost Routing (LCR)
- Background Music (BGM)
- Budget Management
- Busy on Busy
- Call Park with Indication
- Call Pickup Group
- Call distribution by Caller ID
- Class of Service (COS)
- CTI (CSTA, TAPI)
- Data Line Security
- Delayed Ringing
- Direct In Lines (DIL)
- Direct Inward Dialling (DID)
- Direct Inward System Access (DISA)
- Door-Phone / Door Opener
- Echo Cancellation
- Extension Lock
- External Sensor/Relay for Alarm Notification
- Emergency Call
- Existing APT/ DPT Compatibility
- External BGM
- Flexible Numbering Plan (4-digits)
- Floating Extension
- Greeting Message
- Host PBX Access Code
- Hunting Group
- Hurry-Up Transfer
- Incoming Group (Hunting Group)
- Intercept Routing - Busy / DND
- Intercept Routing - No Answer
- Intercept to Trunk
- Main Processing (MPR), Card / CS software download
- Manager Functions
- Multiple Language Support
- Online Diagnostics
- Operator Functions
- PC Console / PC Phone
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- Quick Setup
- Remote Alarm Notification
- Remote Extension Status Control through DISA
- Remote Extension Lock
- Ring Group
- Special Carrier Access
- Station Message Detail Recording (SMDR)
- System Memory Expansion
- Tenant Service
- Timed Reminder
- Time Service (Day / Night / Lunch / Break)
- Toll Restriction
- Trunk Group
- Uniform Call Distribution (UCD)
- User Group
- VIP-Call
- Visual Caller ID

## <Voice Mail (VM) Features>
- Automatic Configuration - Quick Setup
- Call Forwarding to VM
- Caller's Identification Notification to VM
- E-mail Integration[*1]
- Intercept Routing to VM
- Live Call Screening (LCS)
- Remote PBX Data Control by VM
- Telephone Display, Menu driven VM operation
- VM Data Control by PBX
- VM (Digital / DTMF) Integration
- VM Group
- VM Mail Transfer
- VM Menu on the LCD[*1] (KX-T7636/T7633 only)

## Extension Features
- 4-Party Conference with Broadcasting up to 32-Party
- Absent Message
- Account Code Entry (Forced)
- Automatic Redial
- Boss - Secretary
- Broadcasting
- Caller ID to SLT
- Call Forwarding (All Calls, Busy, Busy / No Answer, No Answer, Follow Me, From Incoming Group)
- Call Hold
- Call Pickup (Directed, Group, DSS, Deny)
- Call Transfer (Screened, Unscreened, One-Touch Transfer, Transfer Recall)
- Conference (3-Party Conference, Multi Party Conference, Unattended Conference)
- Dial Type Selection
- Digital Duplex SP-phone
- Digital eXtra Device Port (DXDP)[*2] (2DPTs in One Extension Port)
- Direct One-Touch Answering
- Do Not Disturb (DND)
- DSS Console
- Executive Busy Override
- Extension Directory
- Extension-to-Trunk Call Duration Time
- External Feature Access
- Flexible Buttons
- Hands-free Operation
- Handset / Headset Selection
- Large Telephone Display Features with Back lit
- LED control for CTI
- Log-In / Log-Out
- Message Waiting
- Multi-Lingual Display
- Multiple Hop Call Forwarding (4 steps)
- Music on Hold
- Off-Hook Call Announcement (OHCA)[*2]
- Off-Hook Monitor
- One-Touch Dialling
- Paging (Deny, Paging Transfer)
- Paralleled Telephone (APT / DPT + SLT, DPT / SLT + PS)
- Redial, Last Number
- Remote Station Control
- Special Carrier Access
- Speed Dialling - Personal / System

## (right column)
- Time and Date Display
- Tone-Pulse Conversion
- Trunk Answer from Any Station (TAFAS)
- Walking Class Of Service (COS)
- Whisper OHCA (Off-Hook Call Announcement)
- Wrap-Up
- eXtra Device Port (XDP)

## <DECT Features>
- Automatic Handover
- DECT CS on Digital Extension Port
- Headset Compatibility
- Incoming & Outgoing Call Log
- Telephone Display control via CTI[*3]
- Wireless XDP Parallel Mode
- Vibrator ring (KX-TCA255 only)

## ISDN Service Features
- Advice Of Charge (AOC)
- Call Hold (HOLD)
- Calling Line Identification Restriction (CLIR)
- Calling Line Identification Presentation (CLIP)
- Completion of Calls to Busy Subscriber (CCBS)
- Connected Line Identification Presentation (COLP)
- Connected Line Identification Restriction (COLR)
- Direct Dialling Inward (DDI)
- ISDN 3 Party Conference (3PTY)
- ISDN Call Forward (CFU / CFNR / CFB)
- ISDN Call Transfer (CT)
- ISDN Extension
- Malicious Call Identification (MCID)
- Multiple Subscriber Numbers (MSN)

## Networking Features
- Alternated Routing
- ARS with VoIP
- DISA Call to the Network
- Network Busy Lamp Field (BLF)[*3]
- Network Closed Numbering
- Private Network to Public Network
- Public Network to Private Network
- QSIG Connection
- Tandem Connection
- TIE Line
- Transfer to Network PBX
- Virtual Private Network (VPN)
- VoIP Network (Built-in IP-GW)

## Built-In Hotel Features
- Call Billing for Guest Room
- Remote Wake-up Call
- Room Status Control
- SMDR for External Hotel Application

[*1] When the KX-TDA Hybrid IP-PBX is integrated with a KX-TVM50 or KX-TVM200 Voice Processing System.
[*2] This feature is unavailable with the KX-NT136.
[*3] Optional software required
DPT: Digital Proprietary Telephone
APT: Analogue Proprietary Telephone
SLT: Single Line Telephone
PS: Portable Station