



**KX-TDA600AL**  
HYBRID IP-PBX SYSTEM

the voice of business

**Panasonic**  
ideas for life

# PANASONIC COMMUNICATION SOLUTIONS

Panasonic Australia is part of the Matsushita Group - a worldwide leader in the development and manufacture of products for a wide range of consumer, business and industrial needs.

The Matsushita Group was founded in 1918. Today, Matsushita Group with its flagship Panasonic brand has annual sales in excess of USD\$80,000,000\* with more than 300,000 employees.

Panasonic has been manufacturing telephone systems since 1986 with the launch of the world's first two hybrid port systems (KX-T308 and KX-T616). The cost savings and superior flexibility of these hybrids quickly made them the world's best-selling systems.

In Australia, we have built the business to be one of the flagship

product areas within Panasonic Business Systems. Panasonic Australia has a strong national network of over 70 dealers, covering all States and Territories, both in metropolitan and regional areas.

Panasonic maintains an on-going programme of training and accreditation to ensure the highest standard of product experience and technical aptitude is maintained within our dealer network.

Panasonic has continued to demonstrate its commitment to providing future-ready products, developing new hardware and software as network services and customer needs evolve. This is clearly seen in the Panasonic KX-TDA Hybrid IP-PBX systems which have been designed to provide advanced features and

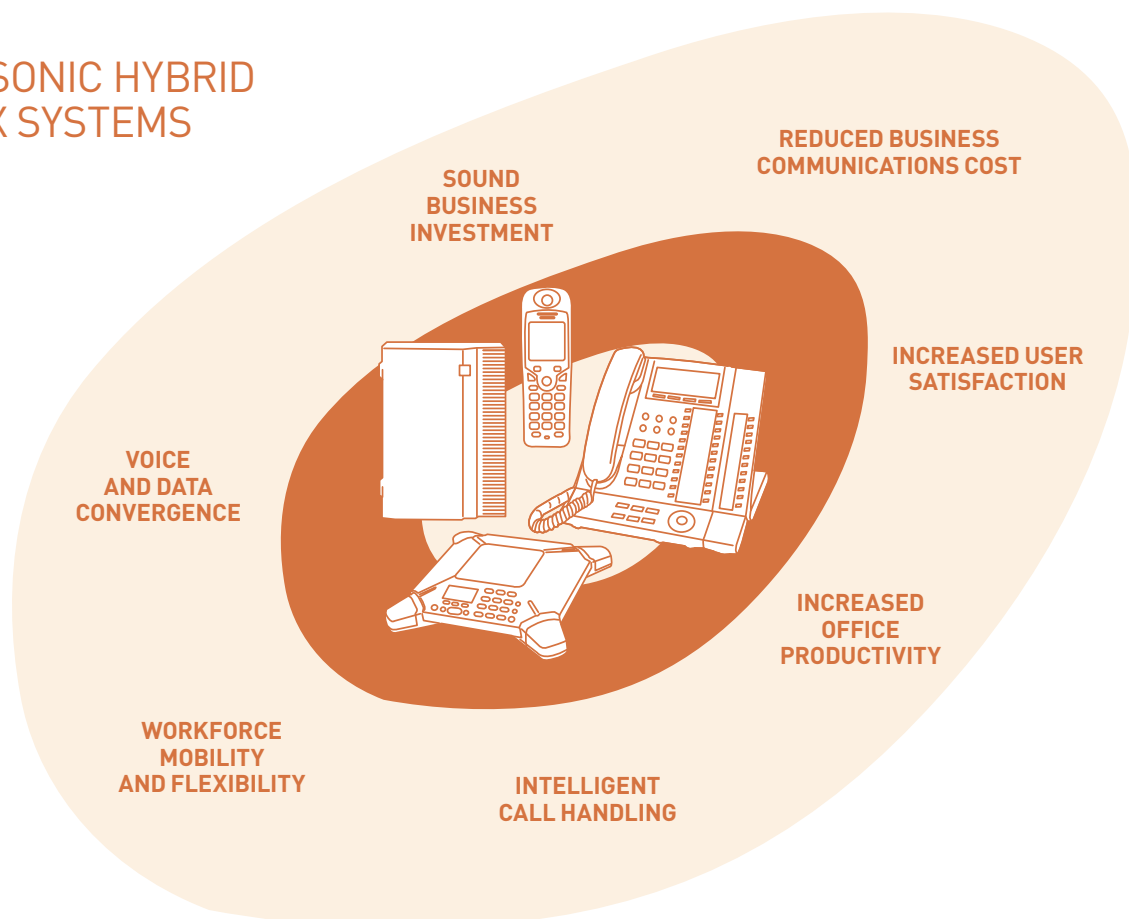
support for Voice Over Internet Protocol (VoIP), first and third-party computer telephony and networking while maintaining their renowned ease of operation.

Panasonic KX-TDA Hybrid IP-PBX features also include backward compatibility, universal slots, CTI application interoperability via standard published interfaces, and remote maintenance and software upgrade capabilities.

\* Year ending 31st March 2005

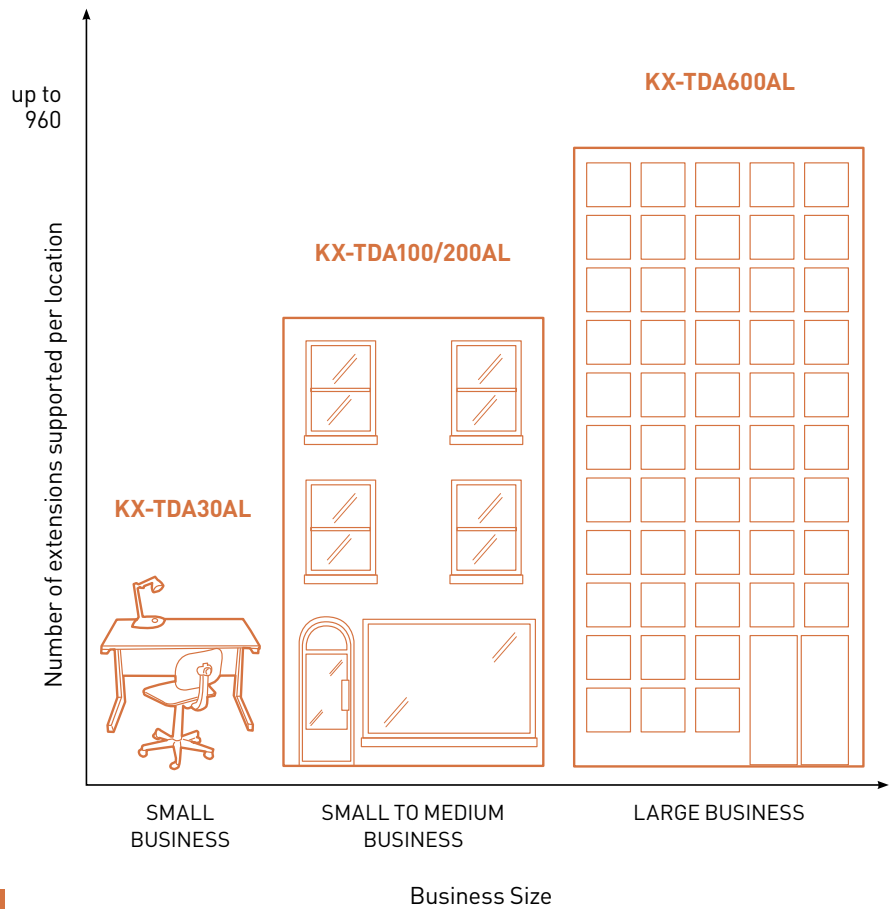
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## PANASONIC HYBRID IP-PBX SYSTEMS



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 KX-TDA Hybrid IP-PBX 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.



Panasonic KX-TDA Hybrid IP-PBX the voice of business

## Reliability

Panasonic business telephone systems are manufactured to the highest possible standards at a factory that has earned ISO 9001 certification for design, development and manufacture of telecommunications equipment.

This is further supported by the provision of a factory warranty.

## Ease of Maintenance

In addition to renowned reliability, the Panasonic KX-TDA Hybrid IP-PBX system 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.

## The Panasonic KX-TDA Hybrid IP-PBX is truly a business telephone system for today and tomorrow.

The system is a communications tool that can grow with your business. Due to the modular architecture, the system can be cost effectively expanded and upgraded to offer more services as your needs evolve. You can also upgrade your system to support new technologies such as VoIP while continuing to use your existing analogue or digital handsets.

## Scalability to Match Your Business Growth

Your new telephone system can grow with you with handsets and accessories that are common across the system range.

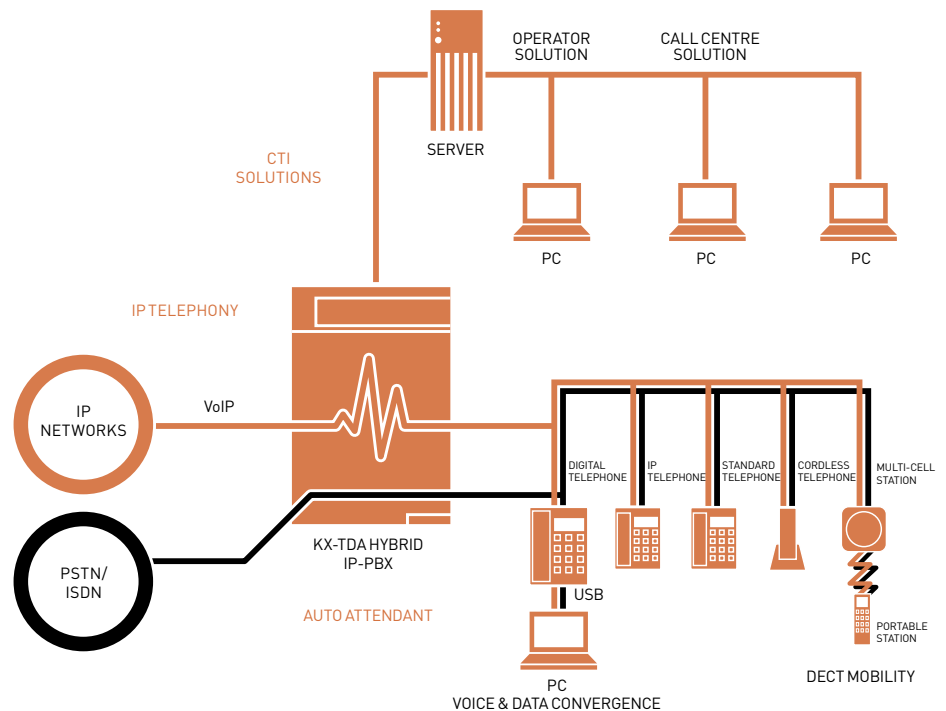


# REDUCED BUSINESS COMMUNICATIONS COST

## System Overview

The Panasonic KX-TDA Hybrid IP-PBX combines PBX features and reliability with IP technology to create a host of advanced functions.

Features such as Voicemail, Intelligent Call Handling for Call Centre application, Wireless DECT mobility, Computer Telephony Integration (CTI), Networking and Hospitality features are supported as well as optional VoIP gateway and PC Phone application.



## Keeping Telephone Costs Down

Any business could benefit from a low cost, easy to use and reliable inter-office networking system. Using a VoIP gateway, the system converts telephone voice signals into IP packets, making it possible for you to use VoIP technology even with existing telephone units. The Panasonic KX-TDA Hybrid IP-PBX also supports the QSIG\* protocol, making it effective for building a company-wide voice network. 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 is an industry standard digital networking protocol.

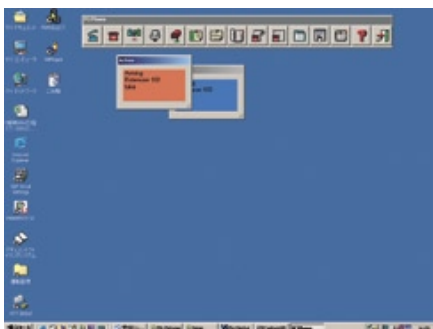
# INCREASED USER SATISFACTION

For effective communication Panasonic KX-TDA Hybrid IP-PBX systems allow you to choose from a wide range of services. The system provides businesses with a range of user-friendly solutions allowing you to find the right solution to handle your business application needs and improve your customer and user satisfaction.

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 and play connection with a PC.



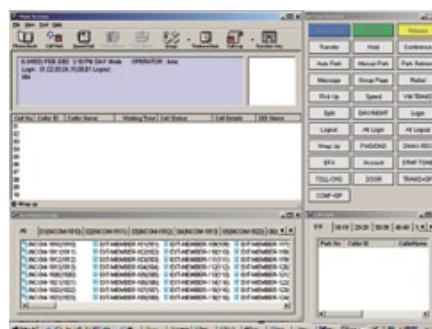
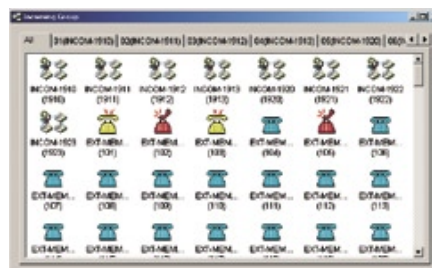
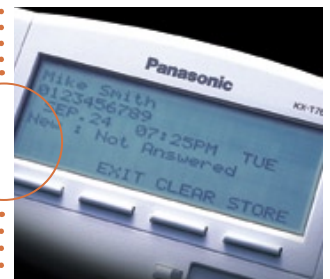
## Ergonomic Design, 4-Step, Tilt-Angle Adjustment



## Large Display, Variety of Information

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

- Log of incoming and outgoing calls (Call Log)
- Incoming caller's name and number (ISDN, Caller ID)
- System/personal speed dialling
- Extension lists
- Menu of system features
- Voice Mail (VM) Menu
- Call duration
- Message waiting, absent messages and feature settings
- Calling extension's number and name.



## PC Console and PC Phone

The optional Panasonic PC Phone software integrates an individual's Microsoft Outlook database with the phone system, while PC Console allows operators to manage calls more professionally and effectively.

Note: USB module (KX-T7601) is required. KX-T7601 supports all features of the PC Phone software for a 90 day trial from the date of installation. After this period expires, the following buttons on the operation screen will become unavailable:

- Recording
- Telephone Answering Machine (TAM)
- Voice Memo
- Text Memo
- Speed

To continue using any of the corresponding features after the trial period, please purchase KX-TDA0350 (PC Phone, 5 licenses).

# INCREASED USER SATISFACTION

## KX-NT136X IP TELEPHONE

- 6-Line Backlit Display
- 24 Programmable Keys
- Digital Duplex Speakerphone
- Dual Ethernet Ports
- Available in white

## Message/Ringer Lamp (Dual Colour)

## Headset Jack for Hands-Free Convenience



## Digital Duplex Speakerphone

## Time-Saving, Easy-to-Use Navigator Key

## Programmable Keys with Red/Green LED

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

Use the XDP to add an analogue phone, cordless phone or other single-line device to your system, 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, you can download data from your PC or access the internet while talking. The DXDP allows you to increase the number of digital telephones, without the cost of additional hardware. It lets you put functional digital phones in the hands of more of your staff to boost overall office productivity.

## Multi-Language Capability

The Panasonic KX-TDA Hybrid IP-PBX system accommodates up to five different LCD languages, for use in areas where more than one language is commonly spoken. The language can be set at the PBX for a specific telephone extension, to meet the needs of the person who uses that extension.

## Message/Ringer Lamp (Dual Colour)

The large, easy to see lamp illuminates to indicate when a call arrives, so you can tell which phone is ringing even from a distance. The colour of the lamp indicates the status - green (flashing) for an internal call, red (flashing) for an outside call and red (solid) to indicate that the caller has left a message.

## Digital Handset Range

### KX-T7636AL with KX-T7603X

- 6-Line Backlit Display
- 24-Programmable Keys and Speakerphone
- Optional 12-Programmable Keys and USB port
- Available in black or white



### KX-T7633AL

- 3-Line Backlit Display
- 24-Programmable Keys
- Digital Duplex Speakerphone
- Optional Keys and USB port
- Available in white



### KX-T7630AL

- 3-Line Display
- 24-Programmable Keys
- Digital Duplex Speakerphone
- Available in black or white



### KX-T7625AL

- 24-Programmable Keys
- Digital Duplex Speakerphone
- Available in white



### KX-T7667AL

- 1-Line Display
- 12 Programmable Keys
- Headset Jack
- Available in black or white



### KX-T7665AL

- 1-Line Display
- 8 Keys
- Digital Duplex Speakerphone
- Available in black or white



### KX-T7640AL

- Digital Station Selection Console (60 DSS)
- Available in black or white



# INCREASED OFFICE PRODUCTIVITY

## Higher Productivity, Greater Customer Satisfaction via Desktop PC Integration

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.

## 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.

## Increased User Productivity via CTI

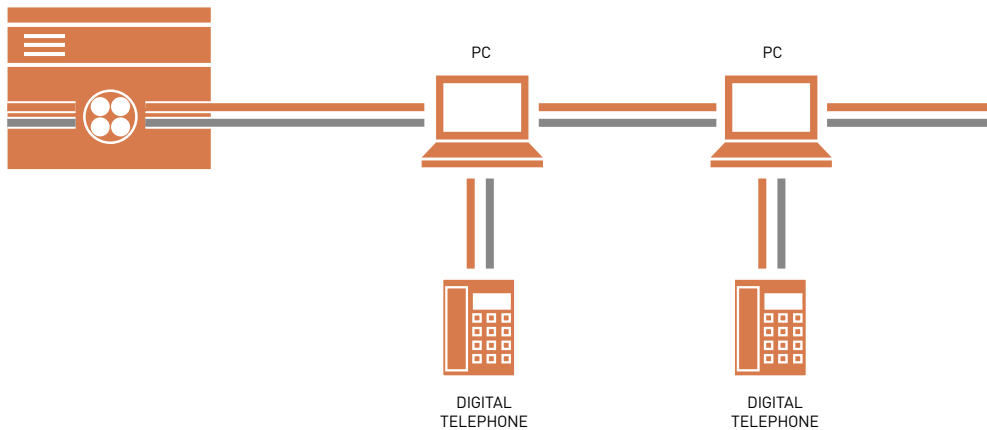
Using PC Phone, you can handle calls just as easily as emails. Conversations can also be recorded and attached as voice memos to emails. With PC Phone software, you can also integrate your phone system with a database, giving you a powerful Customer Relationship Management (CRM) support tool. Selective or Automatic Call Recording, Intelligent Telephone Answering Machine (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.

## Attend to Visitors Without Leaving Your Desk

Using an optional Door-Phone and Interface Cards, you can have a designated telephone, including a mobile phone, ring when a visitor presses the doorbell – allowing you to respond to a visitor and even unlock the door without leaving your desk, saving time for both you and your guest.

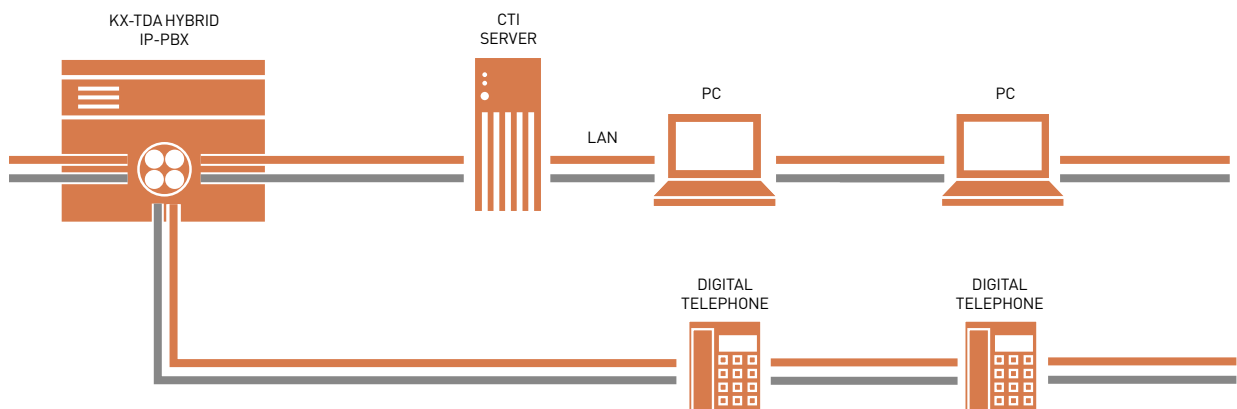
### 1ST PARTY CTI

KX-TDA HYBRID  
IP-PBX



### 3RD PARTY CTI

KX-TDA HYBRID  
IP-PBX



# INTELLIGENT CALL HANDLING

With its intelligent call-handling functions, the Panasonic KX-TDA Hybrid IP-PBX can serve as the core of an efficient contact centre that provides outstanding customer service. Use the system to automatically distribute incoming calls as desired. You can also program the system to direct callers to the appropriate group for efficient call handling.

## Superior Call-Handling Efficiency

You can assign a backup extension as an overflow destination for calls not answered within a specified period of time. You may 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.

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.

Other features, listed below, help ensure greater customer satisfaction and prevent missed business opportunities.

- VIP Call, which provides special handling for key customers
- Automated Attendant, which answers calls automatically
- Queuing, which puts the caller on hold and plays messages and music when no one is available.

The Panasonic KX-TDA 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.

## Virtual 24 Hour Receptionist Automated Attendant

Using the Message Card, you can easily set up an auto attendant to professionally handle all incoming customer calls to your business. An Auto Attendant can drastically reduce the amount of call traffic handled by the operator - allowing the operator to spend more time with your new or important customers.

The Auto Attendant can also answer multiple calls simultaneously, providing different greetings for different departments.

## Advanced Messaging for Improved Customer Service

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 email with Voice Message attached sent to the user’s personal computer.

Incoming call information is also recorded with the message and is displayed on the telephone. This information includes caller’s telephone number, time of call and length of call.

With the advanced KX-TVM messaging solution, an incoming message that arrives while someone is out of the office will generate a notice automatically to her or his GSM phone and people can check their messages at appropriate times. The advanced KX-TVM messaging solution also supports 2-Way recording. It lets you confirm the contents of the phone call later, so messages are accurately relayed or record conversations in their entirety, for use as examples of proper telephone communication by experienced staff when training new employees.

Have you ever had an important customer on the phone and needed to walk away from your desk? Panasonic Wireless DECT connectivity is here to help. The Panasonic KX-TDA 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 speech comes through loud and clear.

## DECT Mobility

The 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 extensions 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.

## Greater Flexibility with Wireless Connectivity

Panasonic Wireless DECT telephones will allow staff to stay connected even while away from their desk, providing increased productivity – and never keep a customer waiting.



## Hot-Desking for Roaming Employees

Hot-Desking, enabled via 'Walking Extension' feature on Panasonic KX-TDA Hybrid IP-PBX, empowers your staff who work from different locations or departments within your office to move between different desks themselves – reducing the cost of moves, adds and changes.

Users can move desks or offices and be reached on their same number as well as transfer their own profiles and access to such features as access to voicemail, speed dials and pre-programmed functions by logging in to any unused desk phone with a pre-programmed ID number. Hot-Desking is a simple and effective solution that keeps all your staff in touch and in control of their communications.

## Efficiency You Can Appreciate

Our versatile solutions will bring a wide range of benefits to your company. IP and Wireless technologies provides you with 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 system makes it easy to distribute calls, manage your telephone agents and control office use of the telephone system. Compatible with the CTI standard protocols, TAPI and CSTA, the Panasonic KX-TDA Hybrid IP-PBX can serve as the core of a powerful, high value added CTI.



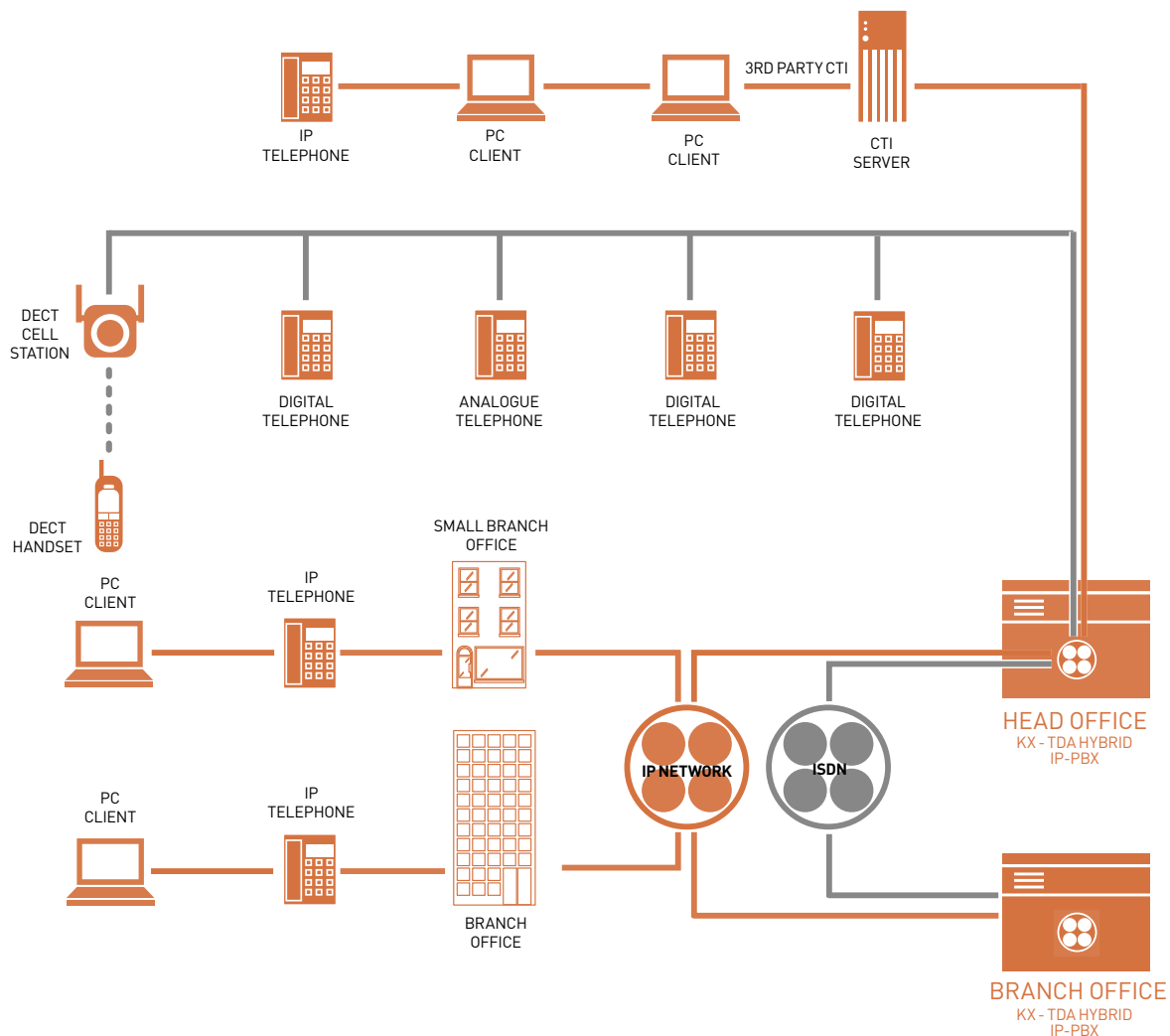
## KX-TCA155AL and KX-TCA255AL

### 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-TCA255AL Only

# VOICE AND DATA CONVERGENCE



IP network infrastructure, which already exists in the majority of companies, can now carry voice along with data. Designed to support convergence through a modular structure, the system allows a harmonious migration towards VoIP, allowing voice and data communication to work within the same network.

## Voice Over IP (VoIP)

VoIP is the latest proven technology for voice communications where packets of digitally compressed voice are sent over IP data networks. These packets are converted back to voice once they reach the destination.

By utilising 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.

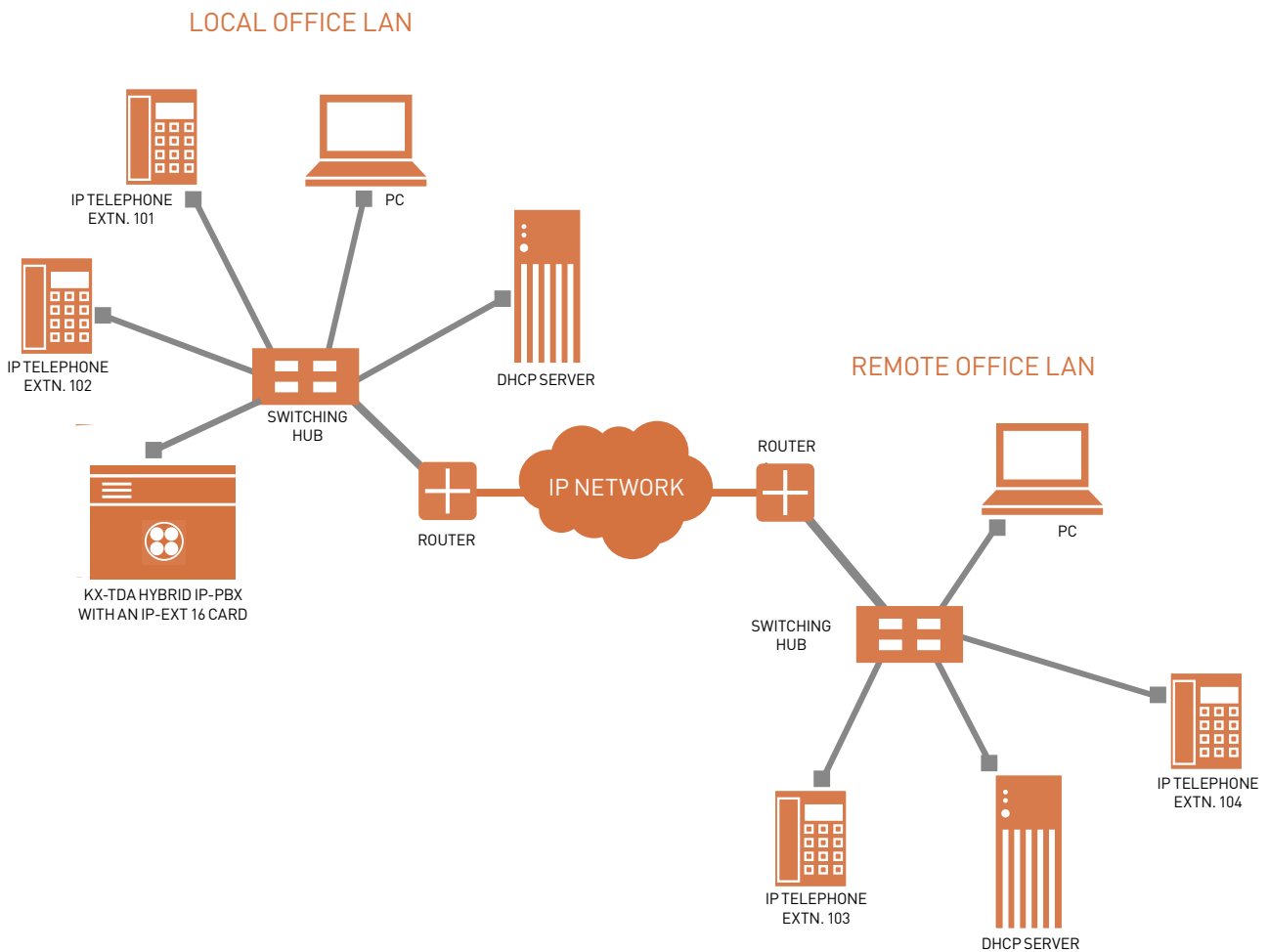
## VoIP Gateway Card

The VoIP Gateway Card makes it possible for you to use VoIP technology with your present telephone handsets and utilise your company's corporate data network without the need for separate, dedicated leased lines. It is an ideal solution for site-to-site communications between multi-site offices and retail chains - as well as for networking branch offices allowing for a flexible working environment and lower costs.

## Hybrid IP-PBX and Desktop PC Integration

With the Desktop PC Phone software, you can also integrate your Panasonic KX-TDA Hybrid IP-PBX system with the database on your desktop PC, giving you a powerful Customer Relationship Management (CRM) support tool and improved call handling.

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.



## IP Telephony

Customers interested in gradually evolving their businesses using IP telephony can benefit from the introduction of the new Panasonic KX-NT136X IP telephone and IP Extension Card which allows voice communication over the data network by converting the voice into data packets.

Based on the familiar high-end Digital Proprietary Telephone, the KX-NT136X IP Telephone includes the familiar one touch feature access to:

- Call Hold
- Conference Call
- Call Transfer
- Call Forward and many more.

Using 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.

The diagram above shows how the KX-NT136X IP Telephones can be used as extensions of the Hybrid IP-PBX at the local office by connecting the local office LAN to the remote office LAN – avoiding the expense of of an additional Hybrid IP-PBX and the installation cost.

Supporting a 6-line alphanumeric LCD for user-friendly feedback and feature visualisation, the KX-NT136X IP telephone is the perfect solution for both office employees or remote workers / home workers.

# CUSTOMISED SOLUTIONS FOR YOUR BUSINESS

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 – no matter how the communication is conveyed (via IP, by traditional telephony or by employing wireless technology). What is crucial for businesses is the quality and reliability. Panasonic provides a wide variety of solutions to cover any individual requirements.



**Retail**



**Medical**



**Customer Services**



**Hospitality**



**Legal**



**Sales**



**Health Services**



**Logistics**

## SYSTEM CAPACITY

		KX-TDA600AL			
		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
	Direct Station Select (DSS) Console			64	
	Voice Processing System (VPS)			8	
	Trunks	Trunk Port	160	320	480
	ISDN Trunk	150	300	450	600
	Analogue Trunk	160	320	480	640
	IP-Gateway	160	320	480	640
Wireless	Portable Station (PS)	Without Memory Expansion Card		256	
		With Memory Expansion Card		512	
	Cell Station (CS)	32	64	96	128
	Doorphone Port	16	32	48	64
	PC Console	8	8	8	8
	PC Phone	128	128	128	128

\*DXDP: Digital eXtra Device Port

## SPECIFICATIONS

		KX-TDA600AL
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 Paging Output - 2 conductor jack External Voice Output - 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: -6dB ~ +6dB per 3dB)
Internal Paging:		Level control: -6dB ~ +6dB per 3dB
External Paging:		2 ports (Level control: -15dB ~ +15dB per 3dB)
Serial Interface Port:	USB:	1port
	RS-232C:	1port (115.2kbit/s)
Structure:		Free Slot style Can be accommodated into 19" Rack

## SYSTEM FEATURE CAPACITY

		KX-TDA600AL
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 per group
	Portable station (PS) Ring Group	32
	Voice Mail (DPT) Group	8
	Voice Mail (DTMF) Group	8
	Queuing Time Table	128
	Extension Hunting Group	128 groups (16 extensions per group)
	Absent Message (System / Extension)	8 message x 16 characters per system 1 message x 16 characters per extension
	Message Waiting	1672 (1032: PT+SLT) + (640: ICDG+PS)
	Number of the characters of Name	20
	Extension Number Digits	5 digits
	Call Park Zone	100
	Conference	3x10 - 8x4 per shelf
	Special Carrier Code	16 digits, 100 entries
	Verified Code	4 digits x 1000 entries
	Verified Code Personal Identification Number (PIN)	10 digits, 1000 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	Toll Restriction / Barring Level	7
Restriction / Barring	Toll Restriction / Barring Denied Code	16 digits, 100 entries per level
	Toll Restriction/ Barring Exception Code	16 digits, 100 entries per level
Networking	TIE Routing Table	32 entries
	Leading Number	3 digits
	PBX Code	7 digits
Automatic	Routing Plan Table	48 entries
Route	Leading Number Table	16 digits, 1000 entries
Selection (ARS)	Leading Number Exception Table	16 digits, 200 entries
	ARS Carrier 48	Itemised 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
	Key Pad Protocol Dial (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
Voice Mail	Max Number of VPS Systems	8
	Max Number of VPS Channels	8 x 24ch
Call Log	Outgoing Call Log	10 logs per extension 5 x 1152 logs per system
	Incoming Call Log	100 logs per extension 0 x 1280 logs per system

# SYSTEM SPECIFICATIONS

## OPTION LIST

	MODEL	DESCRIPTION
Cabinet	KX-TDA600	Basic Shelf (Main Unit)
	KX-TDA620	Expansion Shelf Bus Slave Connection Circuit added initially (BUS S)
Power Supply	KX-TDA0103	Large Power Supply Unit (L-PSU)
	KX-TDA0104	Medium Power Supply Unit (M-PSU)
EMPR	Daughter cards for EMPR card only	Memory Expansion Card (EMEC)
	KX-TDA6105 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
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	8-Port Analogue Extension Caller ID card (EXT-CID8)
	KX-TDA0168 KX-TDA6174	16-Port Single Line Telephone Card (ESLC16)
Trunk Cards	KX-TDA6175	16-Port Single Line Telephone Card with Message Lamp (EMSLC16)
	KX-TDA0470	16-Port IP PT Extension Card (IP-EXT16)
	KX-TDA6181	16-Port Analogue Trunk Card (ELCOT16)
	Daughter cards for LCOT cards only	8-Port Caller ID / Pay Tone Card (CID / PAY8)
	KX-TDA0189 KX-TDA0193	8-Port Caller ID Card (CID8)
	KX-TDA0182	8-port Direct Dialling In (DID) Card (DID8)
DECT Options	KX-TDA0184	8-Port E&M Trunk Card (E&M8)
	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 (PRI 30)
	KX-TDA0484	4-Channel VoIP Gateway Card (IP-GW4E)
	KX-TDA0490	16-Channel VoIP Gateway Card (IP-GW16)
	KX-TDA0141	2-Channel Cell Station Unit Using a DHLC / DLC Card for DECT Portable
	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
Option Cards	KX-TDA0144	8 Cell Station Interface Card (CSIF8) for TDA0142
	KX-A272	2-Channel DECT Cell Station Repeater
	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	4-Port Doorphone Card (for KX-T30865) (DHP4)
Other	KX-TDA0161	2-Port Doorphone Card (for German Type) (DPH2)
	KX-TDA0162	4-Port External sensor Card (EIO4)
	KX-TDA0164	4-Channel Message Card (MSG4)
	KX-TDA0191	SD Card containing Enhanced Feature Upgrades
	KX-TDA6920	Mounting Kit - Contains 4 x Wall Mounting Plates, 4 x Feet, and Screws
	KX-TDA6201	

## DIGITAL TELEPHONES

		KX-T7636AL	KX-T7633AL	KX-T7630AL	KX-T7625AL	KX-T7667AL	KX-T7665AL
Display	Alphanumeric Display (Lines x Characters)	6 x 24	3 x 24	3 x 24	-	1 x 16	1 x 16
	Tilt-Angle Adjustment	4 Steps	4 Steps	4 Steps	4 Steps	2	2
	Display-Contrast Adjustment	4 Levels	4 Levels	4 Levels	-	3	3
	Backlit	√	√	-	-	-	-
Keys Audio	Feature Access Keys for Display	4	4	4	-	-	-
	Programmable CO Keys with Dual-Colour LED	24 (36*)	24 (36*)	24	24	12	8
	Direct Station Selection (DSS) Keys with Busy Lamp Field (BLF)	√**	√**	√**	√**	√	√
	Navigator Key	√	√	√	-	√	-
Audio	Message/Ringer Lamp	√	√	√	√	√	√
	Speaker-Phone (Monitor) Volume Control	12 Levels	12 Levels	12 Levels	12 Levels	12	12
	Handset Volume Control	4 Levels	4 Levels	4 Levels	4 Levels	4	4
	Ringer Volume Control	4 Levels	4 Levels	4 Levels	4 Levels	4	4
Connection	Off-Hook Call Announcement (OHCA)	√	√	√	√	-	-
	Whisper OHCA	√	√	√	√	√	√
	USB Module (KX-T7601) Connectable	√	√	-	-	-	-
	Digital eXtra Device Port (DXDP)	√	√	√	√	-	√
Others	Optional Headset (KX-TCA89) Compatible	√	√	√	√	√	-
	Station Speed Dial Numbers	10	10	10	10	10	10
Colours	Wall Mount	√	√	√	√	√	√
		Black or White	White	Black or White	White	Black or White	Black or White

## IP TELEPHONES AND EXPANSION UNITS

		KX-NT136X	KX-T7640AL	KX-T7603X
Type		IP Phone	Expansion Unit	Expansion Unit
Display	Alphanumeric Display (Lines x Characters)	6 x 24	-	-
	Tilt-Angle Adjustment	4 Steps	4 Steps	4 Steps
	Display-Contrast Adjustment	4 Levels	-	-
	Backlit	√	-	-
Keys Audio	Feature Access Keys for Display	4	-	-
	Programmable CO Keys with Dual-Colour LED	24	-	12
	Direct Station Selection (DSS) Keys with Busy Lamp Field (BLF)	√	60	√ **
	Navigator Key	√	-	-
	Message/Ringer Lamp	√	-	-
Audio	Speaker-Phone (Monitor) Volume Control	12	-	-
	Handset Volume Control	4	-	-
	Ringer Volume Control	4	-	-
	Off-Hook Call Announcement (OHCA)	-	-	-
	Whisper OHCA	√	-	-
Connection	USB Module (KX-T7601) Connectable	-	-	-
	Digital eXtra Device Port (DXDP)	-	-	-
	Optional Headset (KX-TCA89) Compatible	√	-	-
	Ethernet Ports	2	n/a	n/a
Others	Station Speed Dial Numbers	10	-	-
	Wall Mount	√	√	√
Colours		White	Black or White	Black or White

\* 36 programmable keys are available when the optional 12 programmable add-on module (KX-T7603X) is selected.

\*\* Can be assigned to programmable key.

## 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
- 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
- Line Monitor (CO)
- 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)
- SMDR 24 Hour and 12 Hour Time Format
- SMDR Caller ID Printing
- 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
- Email Integration\*1
- Intercept Routing to VM
- Telephone Display, Menu driven VM operation
- Live Call Screening (LCS)
- Remote PBX Data Control by VM
- 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 Single Line Telephone
- 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
- 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 and Outgoing Call Log
- Telephone Display control via CTI\*3
- Wireless XDP Parallel Mode
- Vibrator Ring (KX-TCA255AL 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

- Alternate Routing
- ARS with VoIP
- Call Log (Public Call through Private Network)
- Caller ID to SLT (Public Call through Private Network)
- 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
- Speed Dial Name (Public Call through Private Network)
- 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

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KX-TDA30AL  
HYBRID IP-PBX SYSTEM  
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