



# KX-TDA200AL

## 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 of approximately USD\$77 Billion\* 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

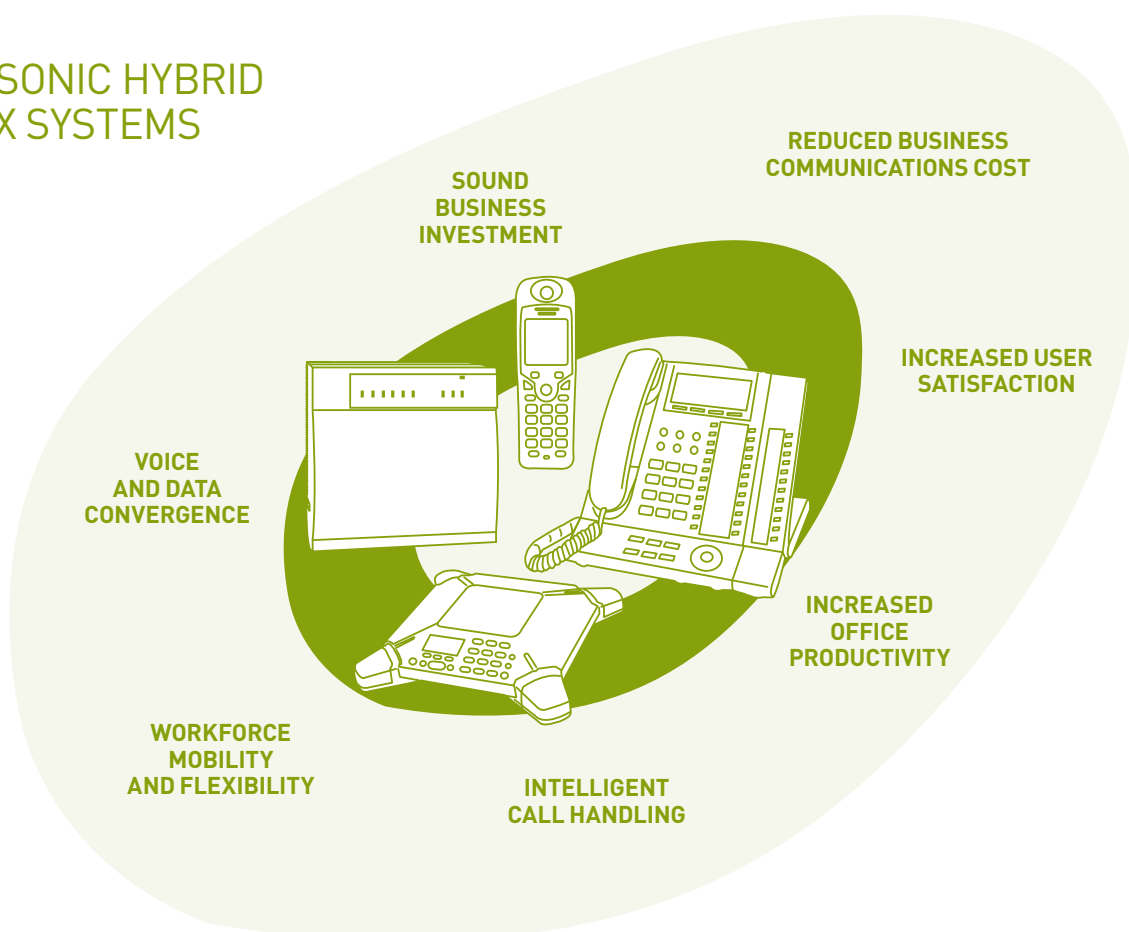
support for Voice Over Internet Protocol (VoIP), first and third-party computer telephony and networking while maintaining their renowned ease of operation.

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 2007

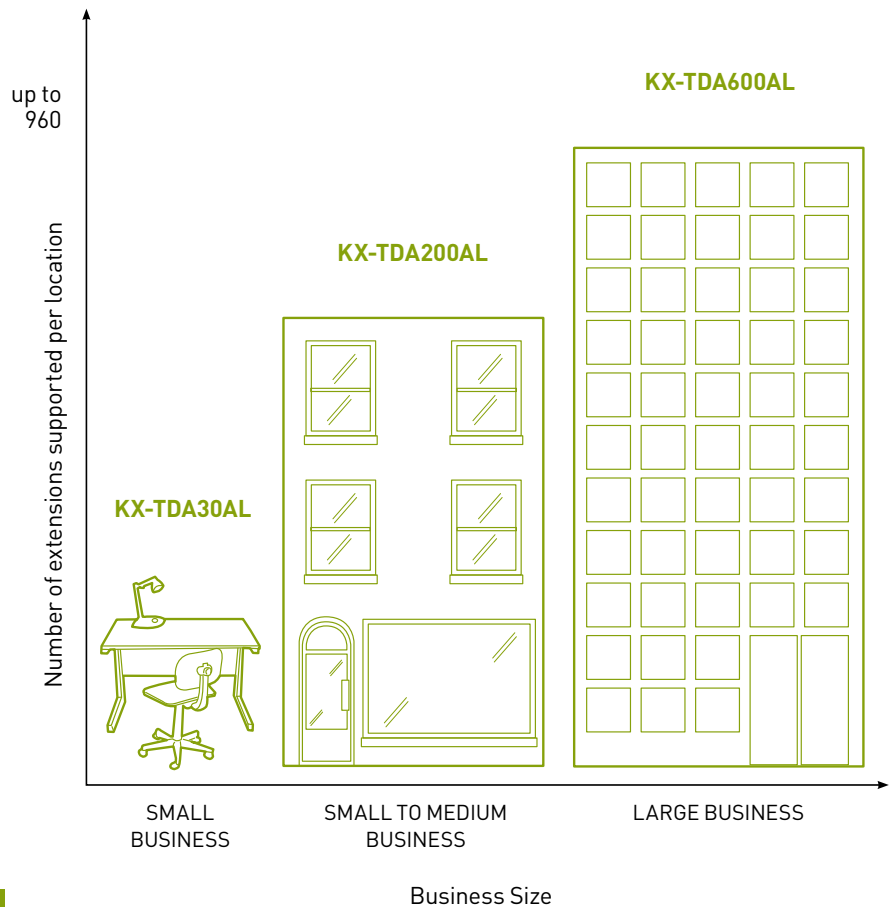
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## PANASONIC HYBRID IP-PBX SYSTEMS



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.

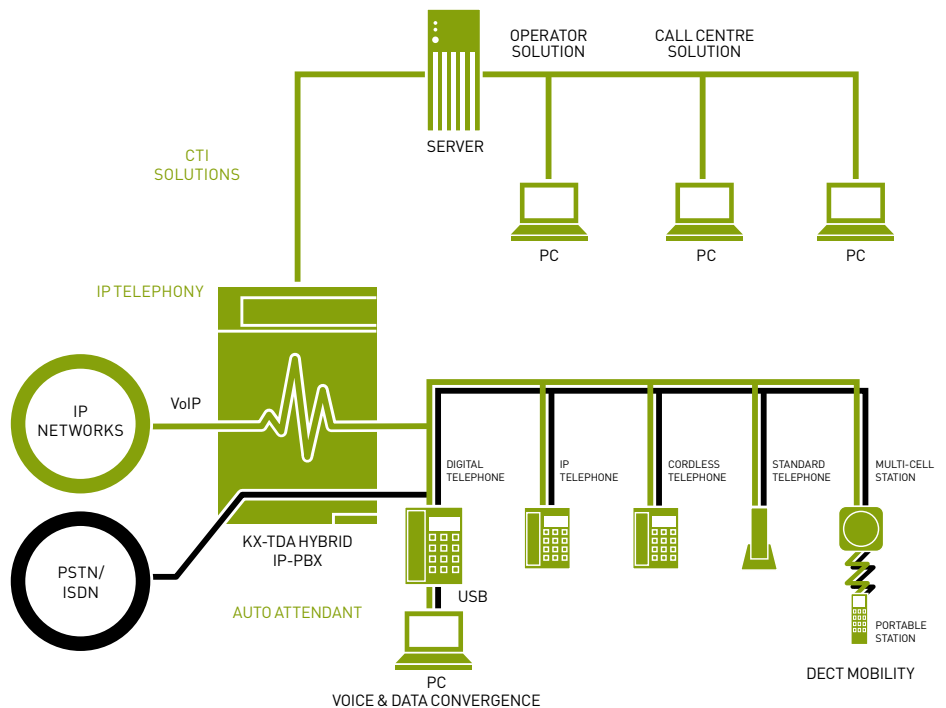


# REDUCED BUSINESS COMMUNICATIONS COST

## 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.

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.

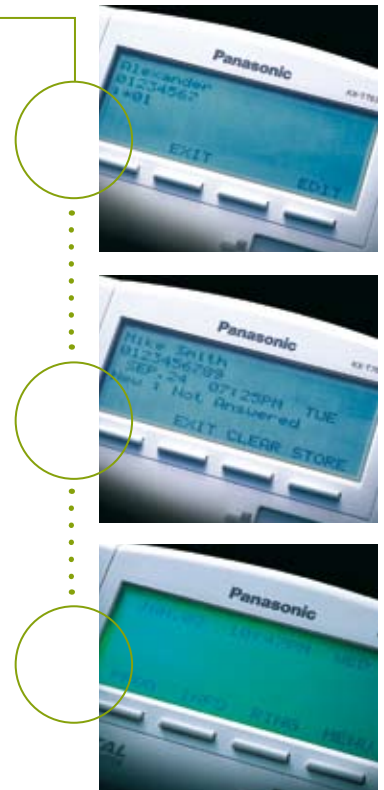


**Ergonomic Design, 4-Step, Tilt-Angle Adjustment**

## 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.



## 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.

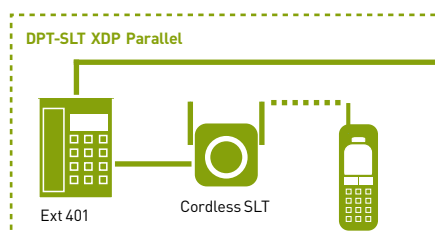
## Message/Ringer Lamp (Dual Colour)

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.

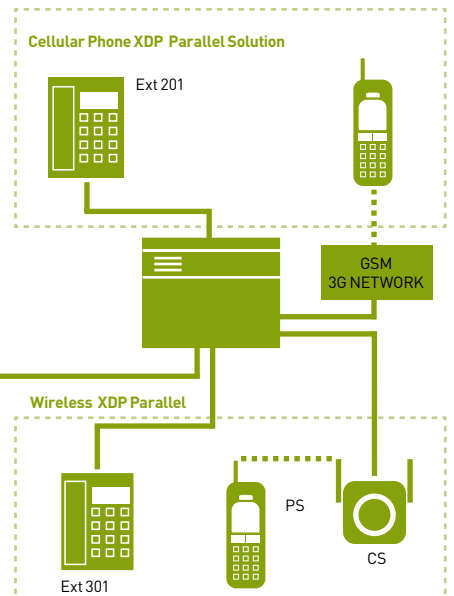
## eXtra Device Port (XDP) and Digital XDP (DXDP)

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.

With Panasonic XDP feature, the system can be programmed to ring the fixed PBX extension and the wireless handset or mobile telephone simultaneously when receiving an incoming call. Three XDP parallel connections are supported.



Calls to the extension number will ring on both the PBX extension and wireless DECT handset or mobile telephone.



# 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

## KX-NT265X IP TELEPHONE

- 1-Line Display
- 8 Programmable Keys
- Speakerphone
- One Ethernet Port
- Available in black or white



## DIGITAL HANDSET RANGE

### KX-T7636AL with KX-T7603X

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



### KX-T7630AL

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



### KX-T7667AL

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



### KX-T7640AL

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



## PHONE ASSISTANT

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

Panasonic Phone Assistant is a suite of desktop productivity applications that integrates with the KX-TDA Hybrid IP-PBX to provide a variety of collaboration tools to simplify and enhance real time communications for business telephone users.

Highly intuitive Phone Assistant Graphical User Interface (GUI) allows users to simply use a mouse to more effectively utilise the telephony features and manage calls with a simple point-and-click.

Panasonic Phone Assistant application empowers you with business tools to provide superior customer service.

There are 3 variations of Panasonic Phone Assistant that are targeted at different users. Phone Assistant users are able to do more in less time, increasing productivity.



### Incoming Call Popup

Phone Assistant unobtrusively informs you of incoming calls via a small pop-up window.

### Click To Dial Contacts

To call someone, click the Contacts tab to visually check to see if they are available and simply click to dial.

### Click Access to Phone Directory

KX-TDA Hybrid IP-PBX contact directory integration allows users

to create business or private contacts that show the presence and availability of all co-workers or can simply dial external business contacts by double clicking.

### Presence and Availability

The "Presence and Availability" function is fully incorporated into the application allowing you to see other contacts' phone status (e.g. Idle, Busy, Ringing, etc.). This feature helps to determine who is available to handle calls before you decide to call or transfer a call to them, greatly reducing the number of missed calls and lost communications.

### Instant Messaging

Instant messaging allows text messages to be sent to another Phone Assistant user's computer screen.

### Never Miss an Important Call

The software informs you of the number of calls and chat invitations while away from your desk, enabling you to return their call even if they did not leave a message.

### Record Conversation with Ease

PA Users can easily record conversations to Voice Mail at the press of a button. Conversation recordings can be listened to by accessing voicemail.

KX-TVM50/200 required.

### IP Softphone Option

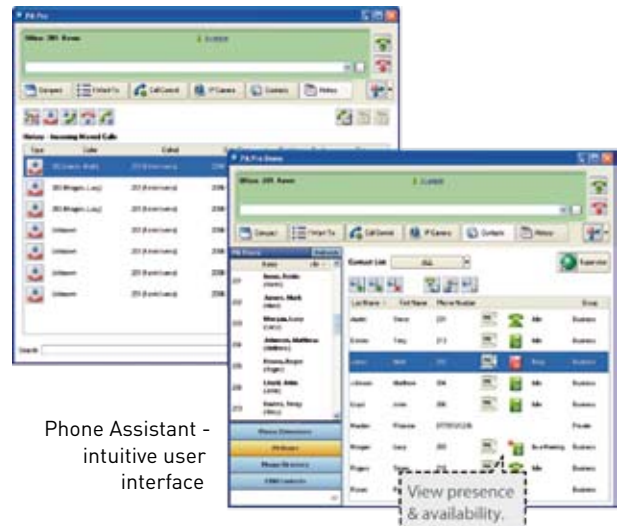
An optional Softphone plug-in module allows remote users, call centres and other roaming employees to connect and access the corporate telephony applications over an IP network even in a remote location.

### IP Camera Integration

Panasonic IP Cameras can also be integrated, allowing users to answer a doorphone and open the door after viewing the IP camera video feed on screen.

## PHONE ASSISTANT STATUS

Phone Assistant Status application allows supervisors and team leaders an easy way to keep an eye on all their team members' telephony communication activities. Each supervisor can manage up to 128 extensions – monitoring phone status, call details, presence and availability – perfect for managing a team or an entire organisation.



Phone Assistant - intuitive user interface

Features supported include:

- Drag and drop extensions to monitor
- Click to access call details
- Call monitoring

## PHONE ASSISTANT MANAGER

Phone Assistant Manager is an intuitive web browser-based application designed to make it easy for IT Administrators to administer Phone Assistant users and make typical Adds/Moves and configuration changes to their KX-TDA Hybrid IP-PBX right from their networked PC.

# WORKFORCE MOBILITY AND FLEXIBILITY



KX-TCA355AL  
Tough Type Model

Enjoy superb mobility no matter where you work, whether it is in an office, factory, warehouse, supermarket or other large facility. Panasonic Wireless DECT connectivity and Mobile Phone integration are 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 or across sites that are connected to a network of KX-TDA Hybrid IP-PBXs. Because the system is digital, the speech comes through loud and clear.



KX-TCA256AL  
Compact Business Model

The Multi-Cell DECT System is an integrated wireless system that is specifically designed for use with a Panasonic KX-TDA Hybrid IP-PBX.

### 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



KX-TCA155AL  
Basic Model

most of every business opportunity that comes along. This system provides automatic hand-over between cells, giving you true communication mobility even in large premises.

The KX-TCA256AL DECT handset combines small size and light weight with a host of powerful features. The KX-TCA155AL is a good choice for users who want good basic performance at a lower cost. And for users who require a ruggedised handset, the new Panasonic KX-TCA355AL meets strict dust and splash resistant IP54 standards.

\* The KX-TCA155AL, KX-TCA256AL and KX-TCA355AL must be connected to a Panasonic KX-TDA Hybrid IP-PBX System.



## KX-TCA155AL, KX-TCA256AL and KX-TCA355AL

### 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-TCA256AL and KX-TCA355AL Only

## PANASONIC MULTI-CELL DECT SYSTEM FEATURES

### Easy Operation

- Graphical Icon Menu
- Dynamic Operation Guidance with Soft Keys

### Easy Access to PBX Features

Flexible Programmable Keys let you register PBX features and handset functions for quick, convenient access. A graphical PBX Feature Menu is also available to further improve operating ease.

### Blue LCD Backlight

Whenever you get a call or touch a key, the LCD lights up in blue so you can see who's calling and easily operate the phone - even in the dark.

### Seamless Connection – Automatic Hand-Over

There is no change in the connection quality as you move from one cell station area to the next while conversing with a colleague in the same building or with a customer outside.

### 200-Station Phonebook

The built-in telephone directory lets you store 200 station names and numbers.

### Automatic Answer / Optional Headset for Hands-Free Conversation

Plug in an optional headset and enjoy the ease and unrestricted freedom of hands-free communication.

With an optional headset, you can answer incoming calls without even touching the handset.

### Greater Flexibility with Mobile Phone Integration

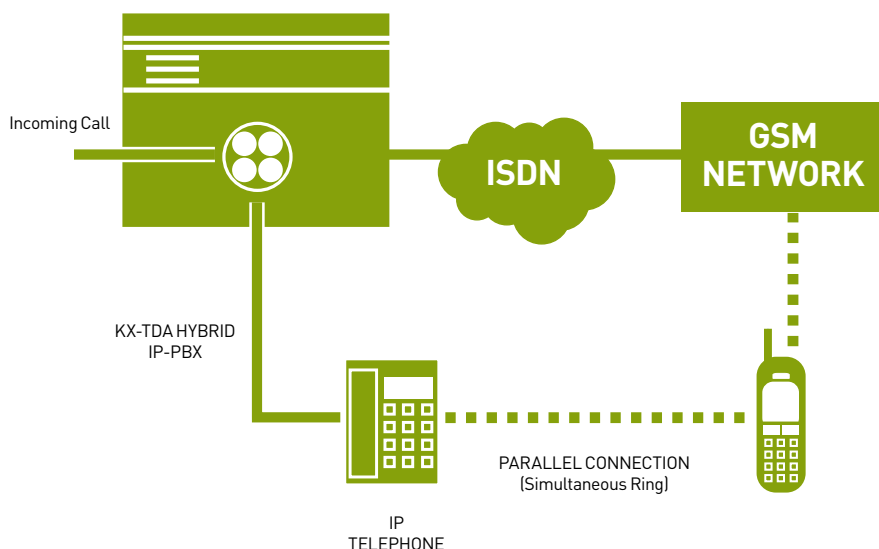
Panasonic KX-TDA Hybrid IP-PBX system allows for seamless integration of the office PBX network and mobile telephones. The system can be programmed to ring the fixed PBX extension and the mobile telephone simultaneously when receiving an incoming call. Calls to the mobile telephone can then be transferred back to another PBX extension if necessary.

With Panasonic KX-TDA Hybrid IP-PBX system and mobile phone integration feature, your staff can stay connected on the same phone number they use in the office while away from their desk, increasing staff productivity and customer satisfaction. Your key customers never have to be kept waiting again.

### 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.



# 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.

## Call Centre Efficiency You Can Appreciate

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.

## 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 group and begin handling calls, or “log out” to exit the group temporarily, such as when taking a break. An extension can also be allocated 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.), change 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 – Automatic Call Distribution (ACD), 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 the 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 users 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.



## INTELLIGENT CALL REPORTING WITH KX-NCV200 ACD REPORT SERVER



ACD Report Server is designed to bring advanced call centre functions to users of Panasonic KX-TDA Hybrid IP-PBX systems. This provides useful functions such as real-time monitoring and call centre performance reports, and agent log-in.

### REAL TIME MONITOR

#### ACD (Automatic Call Distribution) Monitoring

Clearly knowing actual operating performance is vital to optimising informal call centre management.

#### ACD Monitor



Counter shows each status



Example: Incoming Calls, Waiting Calls in Queue, Lost calls, Total Calls, Answered Calls, Logged-in Agents, etc...

The Panasonic ACD Report Server lets supervisors monitor parameters, such as the number of active calls, agent status, queue status and agent/group performance.

### REAL TIME ANALYSIS

The number of incoming/outgoing calls and accumulated call data that are monitored by the ACD Report Client can be viewed in graph form. The user can also customise the format and select the data for producing graphs. These performance graphs are capable of changing to reflect changes in the ongoing status.

The following performance graph shows: -

1. Status of the ICD Group
2. Status of each agent

### Performance Graphs



### BUILT-IN VOICE MAIL

KX-NCV200 also offers useful Voice Mail function, as it is built on the same platform as TVM200 - providing a cost effective call centre reporting-voicemail solution to small medium enterprises

### LOG REPORT

Panasonic's informal call centre solution also provides a reporting function for the detailed analysis needed to improve call centre performance. This function allows users to create reports on call information. The following reports are provided.

#### Trunk Call Report

Managers obtain call information on trunks accumulated over a given period.

#### System Report

A system report shows a summary of the whole system accumulated over a given time.

#### Group Report

A group report shows a summary of selected ICD groups. Supervisors can use it to obtain statistics for each group.

#### Agent Report

An agent report shows a summary of selected agents in the informal call centre. Supervisors can use it to obtain statistics for each agent and to allocate resources.

#### Agent ID based Report

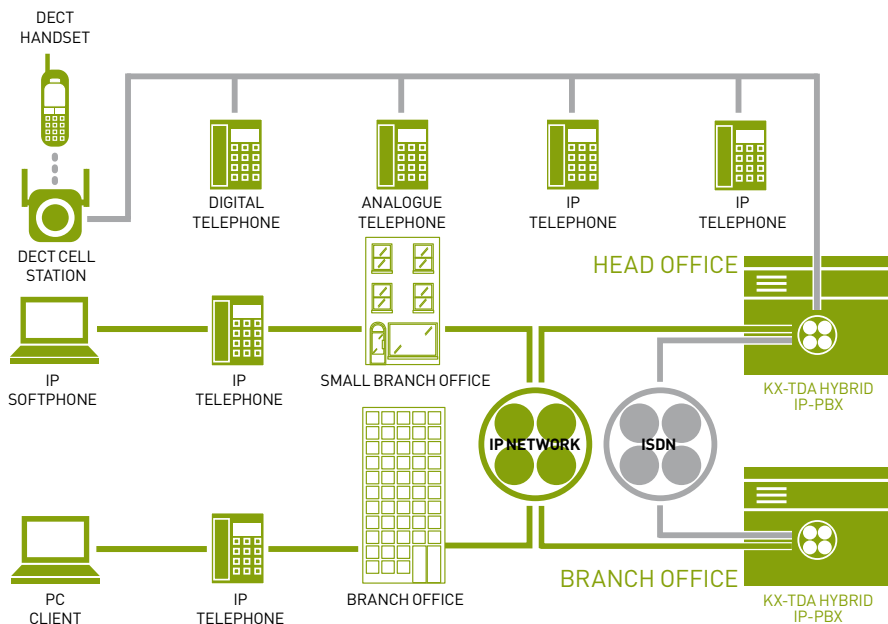
An agent ID based report shows a summary of selected agents. Agents are selected by Agent ID. Supervisors can use the report to obtain statistics for each agent ID.

#### Agent Log Report



#### ACD Reports

# 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 Phone Assistant 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.

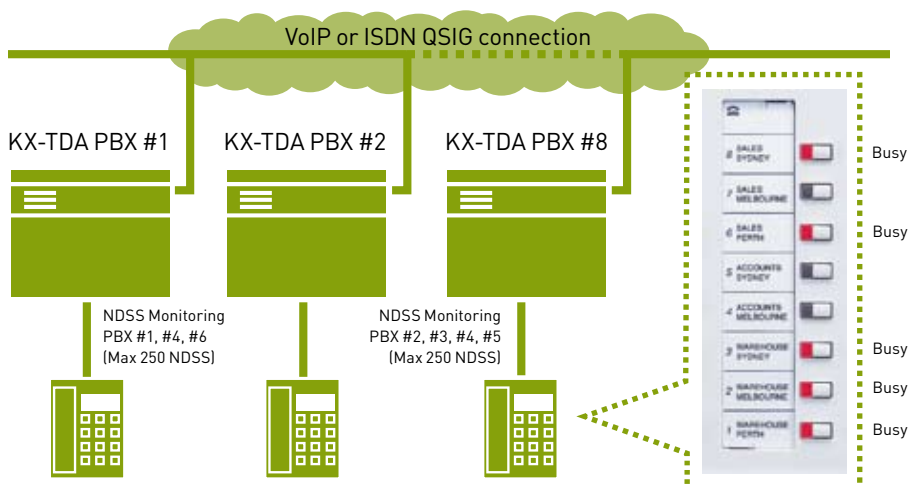
## Advanced Networking

The Panasonic KX-TDA Hybrid IP-PBX system provides users with the ability to monitor the status of extensions connected to other systems in the network (maximum of 8) when they are networked together using ISDN or IP.

Up to a maximum of 250 extensions across the network can be monitored through the flexible buttons on the Panasonic telephones which are assigned as Network Direct Station Selection (NDSS) buttons. If the monitored extension is busy, the red lamp on the NDSS button will light up and if the extension is idle, the lamp will remain off.

The Panasonic KX-TDA Hybrid IP-PBX system also supports other networking features such as:

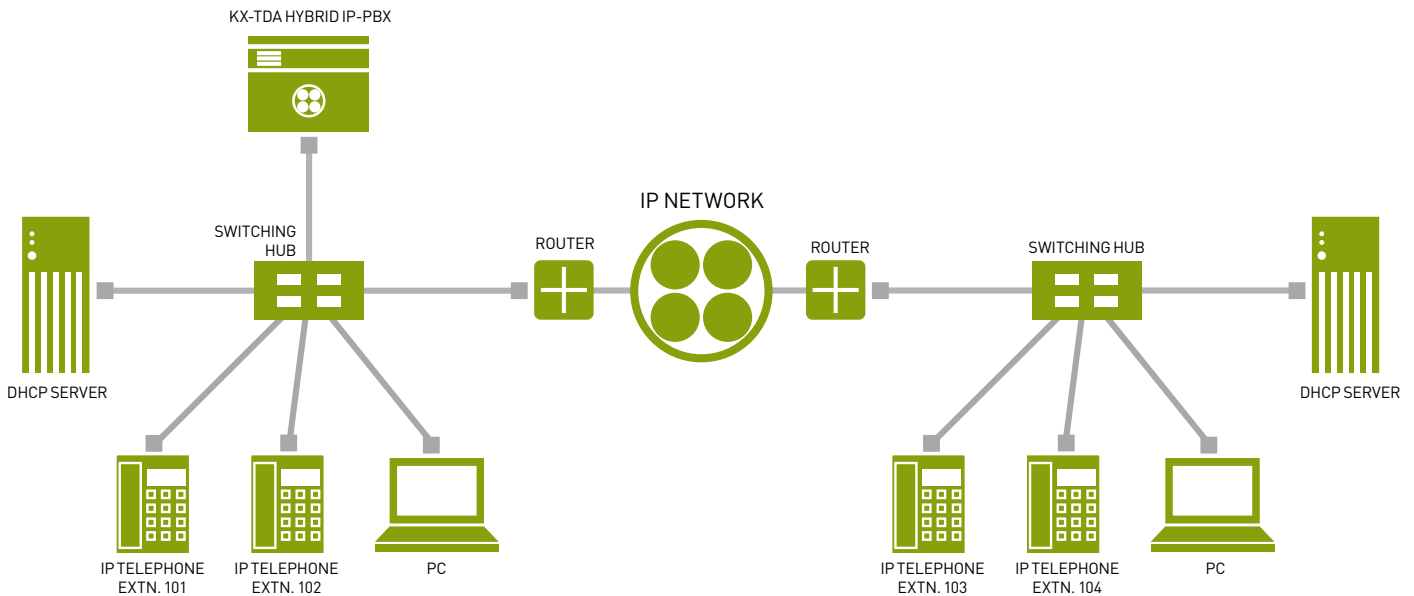
- Centralised Voice Mail which allows a network of systems to share the Voice Processing System (KX-TVM50/200AL) connected to a system in the network.
- Network Incoming Call Distribution (ICD) Group in which calls can be distributed to extensions that are grouped across 5 different locations.



# VOICE AND DATA CONVERGENCE

## CORPORATE HEAD OFFICE LAN

## REMOTE BRANCH OFFICE



### IP Telephony

Customers interested in gradually evolving their businesses using IP telephony can benefit from the introduction of Panasonic IP telephones (KX-NT136X and KX-NT265X) and IP Extension Card.

Based on the familiar Digital Proprietary Telephones, the KX-NT136X and KX-NT265X IP telephones include 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), Panasonic 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 Panasonic 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 an additional Hybrid IP-PBX and the installation cost.

Panasonic IP Telephony is the perfect solution for both office employees or remote workers / home workers.

### IP SoftPhone Connectivity for Mobile Professionals

Panasonic's new KX-NCS8102X IP SoftPhone provides mobile business professionals with access to the full functionality of the Panasonic Hybrid IP-PBX from any location with a laptop or PC and a broadband connection. With IP SoftPhone, your laptop becomes an extension of the Panasonic IP-PBX system enabling you to initiate or receive calls from

home or wherever business takes you.

The IP SoftPhone also allows you to speed dial work colleagues from any location – saving time and money. Other features include: -

- Recording of conversations including conference calls onto your PC
- Dial Paste from Microsoft Outlook, Excel or other applications for quick and easy dialling
- IP Network Status indicator



# CUSTOMER SOLUTION 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 quality and reliability. Panasonic provides a wide variety of solutions to cover any individual requirements.



## SYSTEM SPECIFICATIONS



### 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-TDA200AL
Trunk Card	8
Extension Card	8
Total	10

### MAXIMUM TERMINAL EQUIPMENT

Terminal Equipment Type	KX-TDA200AL*2	
	Without MEC	With MEC
Telephone*1	128	256
SLT and PT	128	256
SLT	128	128
PT	128	256
IP-PT	128	
DSS Console	8	
CS	32	
PS	128	
Voice Processing System (VPS)	2	
Doorphone	16	
Door Opener	16	
External Sensor	16	
External Relay	16	
Add-on Key Module	128	256
USB Module	128	

\*1 For the maximum capacity, a Memory Expansion Card (MEC) and / or M-Type Power Supply Unit may be required.

\*2 For the maximum capacity, a Memory Expansion Card (MEC) and / or L-Type Power Supply Unit may be required.

\*3 Expandable to 120 extensions per group.

\*4 Expandable with memory expansion card (MEC)

Note : Please ask your dealer for maximum capacity and configuration.

# SYSTEM SPECIFICATIONS

## DIGITAL, IP TELEPHONES AND EXPANSION UNITS

	KX-NT136X	KX-NT265X	KX-T7636AL	KX-T7630AL	KX-T7667AL	KX-T7640AL	KX-T7603X
Type	IP Phone	IP Phone	Digital Phone	Digital Phone	Digital Phone	Expansion Unit	Expansion Unit
Display	Alphanumeric Display (Lines x Characters)	6 x 24	1 x 16	6 x 24	3 x 24	1 x 16	-
	Tilt-Angle Adjustment	4 Steps	2 Steps	4 Steps	4 Steps	2 Steps	4 Steps
	Display-Contrast Adjustment	4 Levels	3 Levels	4 Levels	4 Levels	3 Levels	-
	Backlit	√	-	√	-	-	-
	Feature Access Keys for Display	4	-	4	4	-	-
Keys Audio	Programmable CO Keys with Dual-Colour LED	24	8	24 [36*]	24	12	12
	Direct Station Selection (DSS) Keys with Busy Lamp Field (BLF)	√	√	√ **	√ **	√	60
	Navigator Key	√	-	√	√	√	-
	Message/Ringer Lamp	√	√	√	√	√	-
Audio	Hands-Free Speaker Phone	√	√	√	√	√	√
	Speaker-Phone (Monitor) Volume Control	12 Levels	12 Levels	12 Levels	12 Levels	12 Levels	-
	Handset Volume Control	4 Levels	4 Levels	4 Levels	4 Levels	4 Levels	-
	Ringer Volume Control	4 Levels	4 Levels	4 Levels	4 Levels	4 Levels	-
	Off-Hook Call Announcement (OHCA)	-	-	√	√	-	-
Connection	Whisper OHCA	√	√	√	√	√	-
	USB Module (KX-T7601) Connectable	-	-	√	-	-	-
	Digital eXtra Device Port (DXDP)	-	-	√	√	-	-
	Optional Headset (KX-TCA89) Compatible	√	√	√	√	√	-
Others	Ethernet Ports	2	1	n/a	n/a	n/a	n/a
	Station Speed Dial Numbers	10	10	10	10	10	-
	Wall Mount	√	√	√	√	√	√
	IEEE 802.3af Power over Ethernet (PoE)	√	√	n/a	n/a	n/a	-
Colours	White	Black or White	Black or White	Black or White	Black or 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 Call Distribution (ACD)
- Automatic ISDN Setting (IBRI)
- 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
- Mobile Phone Integration
- 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<sup>\*1</sup>
- 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<sup>\*1</sup> (KX-T7636 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) <sup>\*2</sup> (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)<sup>\*2</sup>
- 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<sup>\*3</sup>
- Wireless XDP Parallel Mode
- Vibrator Ring (KX-TCA256AL and KX-TCA355AL 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)
- Centralised Voicemail
- DISA Call to the Network
- Network Busy Lamp Field (BLF)<sup>\*3</sup>
- Network Closed Numbering
- Network Direct Station Selection (NDSS)
- Network ICD Group
- 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 Hotel Features

- Call Billing for Guest Room
- Remote Wake-Up Call
- Room Status Control
- SMDR for External Hotel Application

DPT: Digital Proprietary Telephone  
APT: Analogue Proprietary Telephone  
SLT: Single Line Telephone  
PS: Portable Station

<sup>\*1</sup> When the KX-TDA Hybrid IP-PBX is integrated with a KX-TVM50 or KX-TVM200 Voice Processing System.

<sup>\*2</sup> This feature is unavailable with the KX-NT136.

<sup>\*3</sup> Optional software required

\* Note: All these features in this feature list are supported on MPR Version 3.x



**KX-TDE200AL**  
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**KX-TDA30AL**  
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**KX-TDA200AL**  
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**KX-TDA600AL**  
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**MULTI CELL DECT SYSTEM**

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**VOICE PROCESSING SYSTEM**  
KX-TVM50AL  
KX-TVM200AL

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SPEAKERPHONE SYSTEM**  
KX-TS730AL

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