



KX-TDE200/600AL

PURE IP-PBX SYSTEM

the voice of business

Panasonic
ideas for life

PANASONIC COMMUNICATION SOLUTIONS

Panasonic Corporation is a worldwide leader in the development and manufacture of products for a wide range of consumer, business and industrial needs.

Panasonic Corporation was founded in 1918. Today it is one of the largest electronic product manufacturers in the world, comprised of over 556 companies with annual sales of approximately AUD\$92 Billion* and more than 284,000 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 80 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 new Panasonic KX-TDE Pure IP-PBX systems.

The Panasonic KX-TDE pure IP-PBX series are advanced communications platforms for IP networking environments,

supporting SIP connectivity for desktops and networks. The system supports a range of advanced IP telephones, as well as the standard digital and analogue extensions, IP, ISDN and analogue trunks. Couple this with a Business Application environment, and you have a system ready to take your business communication needs into the 21st century, at your own pace.

* Year ending 31st March 2010 at exchange rate of AUD/YEN 80.0. Actual revenue is 7,418 billion YEN.

Panasonic has continued to demonstrate its commitment to providing future-ready products, developing new hardware and software as network services and customer needs evolve.

PANASONIC KX-TDE PURE IP-PBX SYSTEMS



New Panasonic IP-PBX. Exciting new benefits!

- SIP Telephony supporting both Trunks and IP Extensions
- Leveraging Open Standard Communications
- Desktop, Network, & Application Integration
- Business Productivity with Mobility Solutions
- Easy Migration (Upgrade from TDA to TDE)
- Reduced Total Cost of Ownership (Installation & Network call costs reduced)
- Centralised Management & Upgrades

THE KX-TDE PURE IP-PBX PLATFORM



future communication needs. Highly modular and empowered with the latest SIP technology, the new KX-TDE Pure IP-PBXs are an ideal communication platform for customers to solve all their business telephony needs today and in the future as they embrace full IP telephony.

New or existing customers can benefit from the new KX-TDE Pure IP-PBX. Existing customers' KX-TDA systems can be easily upgraded to the KX-TDE systems by simply replacing the main processor card (IPCMR) to take advantage of all the new features and benefit from true convergence.

With KX-TDE systems, customers can manage both stand-alone or networked systems connected via an IP network from any location and benefit from lower costs and increased business productivity.

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

Talk to your local Panasonic Authorised dealer for all your business communication needs.

KX-TDE200/600AL: MAIN FEATURES

FOR USERS

Enhance User Productivity

- Hot Desking (Desktop Mobility)
- Choice of IP Telephony Solutions
- Easy Linking with Network Applications
- Integration with Desktop and Wireless Mobility

Extension Scalability

- Supports IP Phone, SIP Phone, Digital or Analogue Phone Extensions

FOR BUSINESS

Enhance Business Productivity

- Cost Effective SIP enabled IP Trunking
- Secure Remote/Branch Site Communications
- Built-in Call Centre & Messaging

FOR SYSTEM ADMINISTRATORS

Reduce Operation, Installation and Network Call Costs

- Easy extension moves, adds or changes
- Multi-site programming
- Centralised application deployment
- Flexible desk layout

Easy IP & Network Maintenance

- SNMP client, SNMP agent support
- Analogue, Digital and IP Peer - Peer Interoperability
- Operates on any standards based 10/100Mbit/s network
- Easy system expansion



DIGITAL, IP OR WIRELESS TELEPHONE TERMINALS

With the new KX-TDE Pure IP-PBXs - you can choose from any type of telephone terminals - digital, analogue, DECT wireless, IP Softphones or the

new stylish IP telephones. The KX-TDE gives you an extensive choice of telephone terminals to suit your specific business telephony needs.



NEW KX-NT300X IP PROPRIETARY TELEPHONES



Simple Integration

This advanced range integrates with KX-TDE system - allowing quick access to the entire spectrum of phone system features and applications.

Advanced IP Proprietary Terminals

The new Panasonic KX-NT300X series advanced desktop telephones offer superb voice quality thanks to handsfree speakerphone and integrated headset port.

The sleek, ultra-modern phones are available in both black and white colour options to match

any office decor.

Ergonomically designed with features and functions to enhance users' daily productivity, they are ideal for many applications including contact centre agents and hotel rooms, to advanced desktop applications supporting a range of wired and Bluetooth headsets.

Main Features

Hands-free Communication with a Bluetooth Headset

- High-visibility white backlight
- Double-Tilt Design
- Large Alphanumeric Displays
- Easy Navigation Key
- Programmable Keys

Optional Bluetooth Module



Programmable Keys



Back-lit LCD Display



Easy To Navigate



Multi-tilt Angle Adjustment



DIGITAL, IP OR WIRELESS TELEPHONE TERMINALS

KX-DT300AL DIGITAL PROPRIETARY TELEPHONES



*¹ Optional: KX-DT346AL only

*² Optional: KX-DT346AL only

Image: Model KX-DT346AL. Other models may vary.

DIGITAL OR IP TELEPHONE TERMINALS



KX-DT346AL

- 6-Line Backlit LCD Display
- 24 Programmable CO Keys
- Digital Speakerphone
- Bluetooth® Module (Option : KX-NT307X)
- Add-On 12-Key Module (Option : KX-NT303X)
- 60-DSS Console (Option : KX-DT390AL)
- USB Module (Option : KX-DT301X)



KX-DT333AL

- 3-Line LCD Display
- 24 Programmable CO Keys
- Digital Speakerphone
- 60-DSS Console (Option : KX-DT390AL)



KX-T7667AL

- 1-Line LCD Display
- 12 Programmable CO Keys
- Digital Speakerphone
- 60-DSS Console (Option : KX-DT390AL)



KX-DT390AL

- 60 DSS Console



KX-NT303X

- Add-On 12-Key Module (Option : KX-DT346AL only)



KX-NT300X

- Panasonic KX-NT300X Series IP Telephone Terminals Support

WORKFORCE MOBILITY AND FLEXIBILITY

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.



KX-TCA355AL
TOUGH TYPE MODEL



KX-TCA275AL
Compact Business Model



KX-TCA175AL
Basic Model

KX-TCA175AL, KX-TCA275AL and KX-TCA355AL

FEATURES

- Colour LCD Screen*
- 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-TCA175AL and KX-TCA275AL only.
+KX-TCA275AL and KX-TCA355AL only.

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.

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

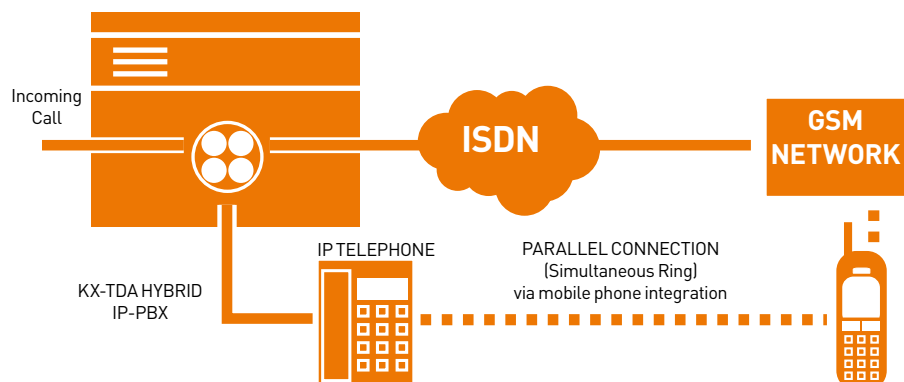
The system allows wireless communication over an extended range by using multiple cell stations

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 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-TCA275AL DECT handset combines a colour LCD screen, small size and light weight with a host of powerful features. The KX-TCA175AL 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-TCA175AL, KX-TCA355AL and KX-TCA275AL must be connected to a Panasonic KX-TDA Hybrid IP-PBX System.

WORKFORCE MOBILITY AND FLEXIBILITY



PANASONIC MULTI-CELL DECT SYSTEM FEATURES

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.

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.

Talk on Charger*



Users can now talk on a call whilst the KX-TCA175AL or KX-TCA275AL is charging. When this feature is on, the call is automatically switched

to speakerphone when it is put in the charger.

Illuminated Keypad



For easier operation in low lighting, the enhanced keypad lights up when a call comes in or when you touch any key.

Colour LCD Screen*



The new colour LCD screen allows clearer visibility and easier operation from the phone screen. It also allows the phone to be used even in dark conditions.

Answer With Headset Button Switch



Make answering calls easier with a headset button for unrestricted freedom of hands-free communication. Leaving you free to answer incoming calls keeping your hands free to continue with any task at hand.

Power Save Mode

To reduce power consumption the handset turns off the back light depending on the setting for the setting for power saving, hence helping to extend the battery power time.

* KX-TCA175AL and KX-TCA275AL only.

Extending Wireless Communication

Panasonic IP-PBX systems allow wireless communication over an extended range by using multiple high density cell stations that boost the flexibility and mobility of your wireless handsets. The system provides automatic hand-over between installed wireless cells - enhancing coverage and giving you true communication mobility even within large premises.

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.



PANASONIC PRODUCTIVITY APPLICATIONS

Communication Assistant Productivity Application Suite

The Panasonic Communication Assistant productivity software suite is a highly intuitive PC based application that blends powerful point and click telephony together with screen based presence, availability,

integration with Microsoft Outlook®, integration with popular TAPI enabled CRM desktop tools, and a variety of collaboration tools to simplify and enhance real-time communications for business telephony users.

Designed for easy installation and maintenance - Communication

Assistant can be deployed without the need of any additional CTI server - making it an ideal solution for small to medium size businesses with limited IT knowledge and staff while multi-site or enterprise businesses requiring scalability to support large deployments - can choose CTI server based deployments.

MODE	TARGETED SOLUTION	BENEFITS
Communication Assistant Pro	Point and click unified communications for desk based or remote workers. Provides users with real-time presence information.	Helps you visually control all your communications from your PC. Stay informed of users' availability in real-time.
Communication Assistant Supervisor	Team supervisors to monitor employees' call activities.	Helps you to visually manage all your group members telephone activities.
Communication Assistant Operator Console	Company operator to easily manage all calls.	Helps company receptionists view and manage all calls and quickly communicate with colleagues and customers - improving customer service.

In addition to the four modes - selectable during installation, application functionality can be further enhanced by selecting various options - as listed in the table below:

Options	License	Benefits
Softphone	YES	Allows remote workers to use laptops as full office phone extensions.
Networking Support	YES	Allows users to view network wide presence and communicate with colleagues across multi-sites
ICD Group Agent Features	YES	Allows informal call centre agents and supervisors to have agent features such as login/logout, wrap-up, etc.
Thin Client support	YES	Allows IT departments to deploy Communication Assistant in a Thin Client Environment ^{*1}

^{*1} Windows Terminal Server and Citrix environment supported.



Remote Workers using Softphone



Office workers



Receptionist using Operator Console



Supervisor supporting team members

**IMPROVED
BUSINESS
PRODUCTIVITY**

Panasonic Communication Assistant together with KX-TDE200/600 enables businesses to implement Unified Communications - enhancing business productivity.

PANASONIC PRODUCTIVITY APPLICATIONS

Panasonic Communication Assistant Solutions enhance the productivity of your workforce by streamlining their business communications.

Communication Assistant Operator Console

PC based Operator Console application provides company receptionists with a powerful tool for easy call-handling, improving efficiency and customer service.



Operator Console displays information about a caller on the PC screen even before the operator takes the call making it easier for operators to prioritise incoming calls, so important customers are never kept waiting. Operators can quickly view presence and availability of all work colleagues - either in a list or in a department view - allowing them to decide how best to transfer or process calls.

With PC based Operator Console, receptionists for both single site or multi-site businesses have access to many advanced powerful features using simple drag-and-drop and point-and-click operations.

Integrating with Business Applications

The KX-TDE200/600 supports Computer Telephony Integration (CTI) which enables telephony and computers to work in sync and provide powerful PC based productivity tools. The system

supports IP based CTI integration via the two mature industry standards:

1. Telephony Application Programming Interface (TAPI)
2. Computer Supported Telecommunications Applications (CSTA)

Leveraging TAPI and CSTA interfaces to augment business communication capabilities - businesses can integrate with leading third party application solutions available in the market to provide software productivity applications that cover all aspects of their business requirements.

Communication Assistant IP Softphone

The Panasonic Communication Assistant IP Softphone option allows road warriors, sales and support staff, or any other power user to use their computer as an IP Phone for anytime, anywhere access to unified communications.



The user simply needs to connect to the corporate IP network over a secure managed broadband connection to enable the IP Softphone.

Communication Assistant Voice Mail Assistant Module

Companies using the optional advanced KX-TVM Voice Messaging

solution - can allow Communication Assistant users to visually manage their voice mails with Voice Mail (VM) Assistant.

VM Assistant module allows Unified Messaging functionality - allowing users to access and retrieve any voice messages left for them in any order.



Users can listen to the messages - on either their desk phone or on their PC and even download messages to their PC for forwarding to any work colleague via email.

Integration with Microsoft® Outlook®

Communication Assistant seamlessly integrates with Microsoft Outlook® allowing users to easily dial contact phone numbers and receive incoming call pop-up alerts.

This feature enhances the productivity of your employees who use Microsoft Outlook® as their primary communications tool by streamlining their business communications.



INTELLIGENT CALL HANDLING

With its intelligent call-handling functions, the Panasonic KX-TDE Pure 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-TDE Pure IP-PBX can serve as the core of a powerful, high value added CTI system.

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-TDE Pure 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.



IMPROVED CUSTOMER SERVICE

Voice guidance provides a user friendly interface to simplify and streamline business communications by efficiently routing customer calls to the correct department or agents. Further, messaging facility can be used for graceful offline call handling during busy hours - increasing overall productivity and improving customer service.

IMPROVE YOUR CUSTOMER SERVICE WITH PANASONIC MESSAGING SOLUTION

The KX-TDE systems offer three types of messaging solutions:

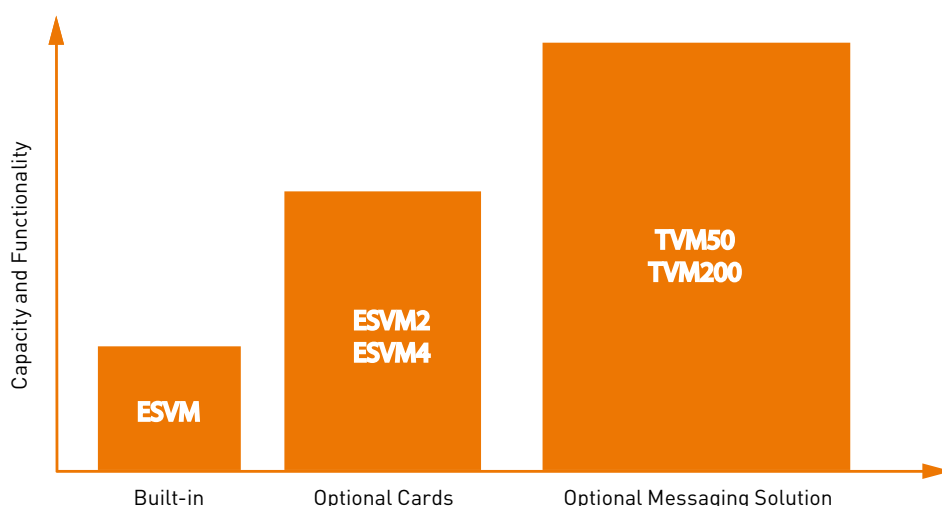
- 1. Built-In Solution:** Built-in 2 channel Enhanced Simple Voice Messaging (ESVM) solution.
- 2. Optional Solution:** ESVM2 (Option: KX-TDA0192) or ESVM4 (Option: KX-TDA0194) Enhanced Messaging cards provide added message recording and outgoing message handling capabilities that help ensure calls from your customers are routed properly and are always answered or processed gracefully. These optional cards can be

configured to run in three modes for complete flexibility:

- a) SVM Mode:** For Voice Mail only features.
- b) MSG Mode:** For DISA functionality leveraging Outgoing Message recordings. The MSG mode can also support mobile telephone extension integration allowing for mobile telephones to be used as office extensions.
- c) SVM + MSG Mode:** Allowing customers to have both a simple

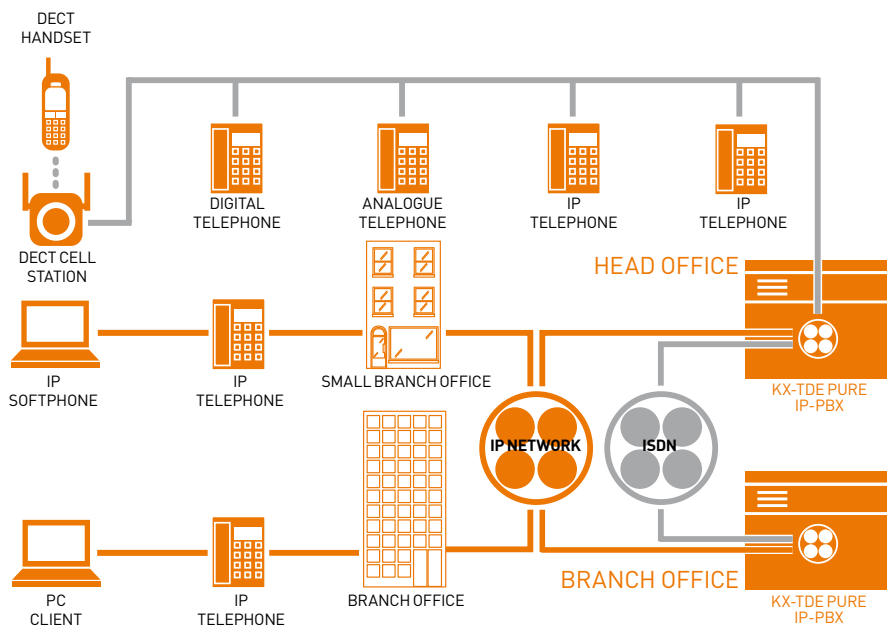
voice mail as well as DISA functionality. Companies can even upload from PC high-quality sound files (8kHz, 16 bit .wav file) that can be played as OGM recordings – for various outgoing message applications.

- 3. External Solution:** Companies requiring further enhanced voice messaging based business applications can upgrade to Panasonic KX-TVM50 or KX-TVM200 messaging solutions. These provide enhanced business class message applications.



TYPE	VOICE MESSAGING	CAPACITY
Built-in	ESVM	125 messages, 120 minutes
Optional	ESVM2 (KX-TDA0192)	250 messages, 120 minutes
Optional	ESVM4 (KX-TDA0194)	2 x 250 messages, 120 minutes
External	KX-TVM50	4 hours - 8 hours
External	KX-TVM200	1000 hours

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

The VoIP Gateway functionality 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.

KX-TDE Pure IP-PBX and Desktop PC Integration

With the Phone Assistant software, you can also integrate your Panasonic KX-TDE Pure 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.

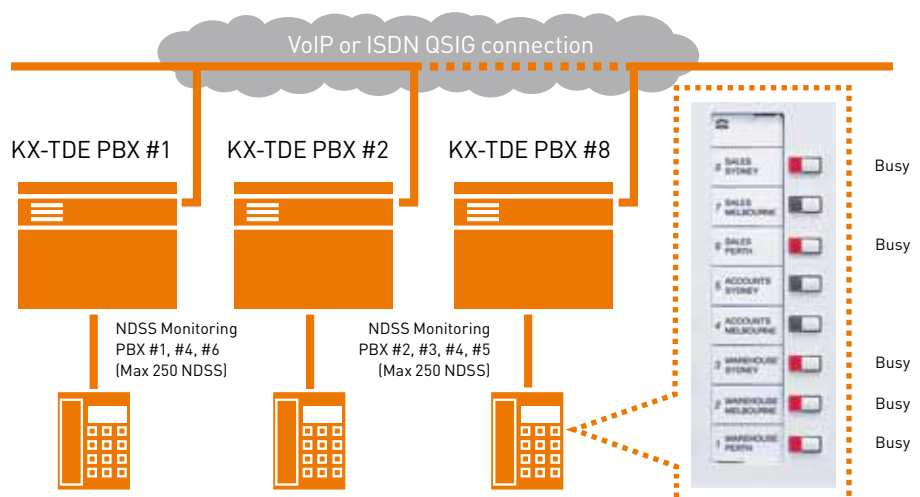
Advanced Networking

The Panasonic KX-TDE Pure 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.

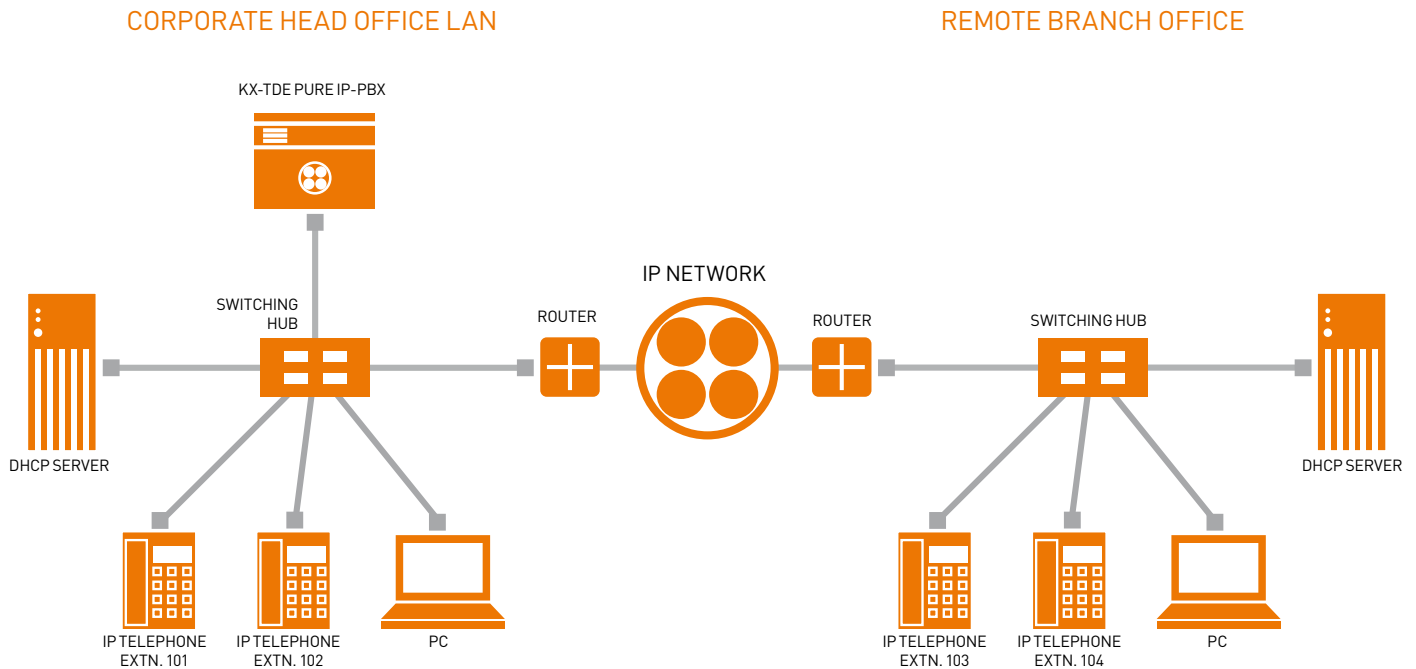
Up to a maximum of 250 extensions across the network can be monitored through the flexible buttons on the Panasonic telephones which are assigned as Network Direct Station Selection (NDSS) buttons. If the monitored extension is busy, the red lamp on the NDSS button will light up and if the extension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

The Panasonic KX-TDE Pure 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



IP Telephony

Customers interested in gradually evolving their businesses using IP telephony can benefit from the introduction of new Panasonic KX-NT300 IP telephones.

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 Pure IP-PBX at the local office by connecting the local office LAN to the remote office LAN - avoiding the expense of an additional Pure IP-PBX and the installation cost.

Panasonic IP telephones are 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



SOLUTIONS FOR ALL INDUSTRIES

The business 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 businesses require is a platform that provides quality, reliable and flexible communications. The KX-TDE Pure IP-PBX provides applications and solutions that address all these crucial business needs.



Education



Retail



Medical



Health Services



Sales



Customer Services



Hospitality



Legal



Construction

SYSTEM SPECIFICATIONS



Line-up

KX-TDE200AL, KX-TDE600AL and KX-TDE600AL with optional KX-TDE620AL expansion shelves (max 3)

The new KX-TDE Pure IP-PBXs are packed with features and applications that be customised to your business and improve your business productivity and business communication bottom line.

SYSTEM CAPACITY

		KX-TDE200	KX-TDE600
EXTENSION	System Total	256	1152
	Built-in	IP Proprietary Telephone (IP-PT)	128
		SIP (RFC 3261) IP Telephone (Basic) ^{#1}	128
		Total	128
	Additional	IP Proprietary Telephone (IP-PT)	64
		Single Line (a/b) Telephone (SLT)	128
		Digital Proprietary Telephone (DPT) - DXDP	256
		Analogue Proprietary Telephone (APT)	64
		Direct Station Select (DSS) Console	8
		Voice Processing System (VPS)	2
		Total	256
TRUNK	System Total	128	640
	Optional	VoIP Channel Card - DSP16 ^{#2}	16ch
		VoIP Channel Card - DSP64 ^{#2}	32ch
		Total	32
	Additional	Analogue Trunk	128
		ISDN Trunk - BRI	128 (64BRI)
		ISDN Trunk - PRI	120 (4PRI)
		IP Trunk	64
		Total	128
	Portable Station (PS)		128
	Cell Station (CS)		32
	Extension Total ^{#3}		256

^{#1} Only tested SIP telephones are guaranteed to work.
Please contact your local Panasonic dealer for list of tested SIP telephones.

^{#2} One card per system. Connects to IPCMPR card.

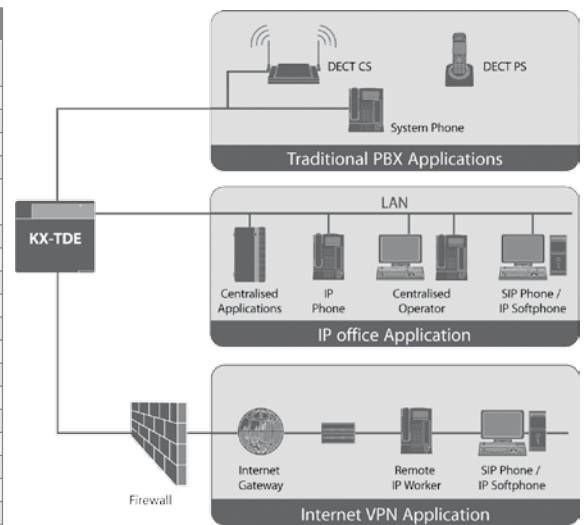
^{#3} SLT + PT + IP Ext. + ISDN-Ext.

SYSTEM SPECIFICATIONS

SPECIFICATIONS

Feature	Model	KX-DT346AL	KX-DT333AL	KX-T7667AL
LCD		24 digits x 6 lines Graphic	24 digits x 3 lines Character	16 digits x 1 line Character
LCD Backlight		Yes	-	-
Programmable CO Keys		24	24	12
LCD Contrast Control		4 levels	4 levels	3 levels
Handset/SP-phone Volume Control		H/S:4,SP:12	H/S:4,SP:12	H/S:4,SP:12
Ringer Volume Control		Electrical Vol.* ³ (H-M-L-UL-OFF)	Electrical Vol.* ³ (H-M-L-UL-OFF)	Electrical Vol. (H-M-L-UL-OFF)
Message/Ringer Lamp		Yes* ²	Yes* ²	Yes* ¹
OHCA		Yes	Yes	-
Whisper OHCA		Yes	Yes	Yes
XDP		Yes	Yes	-
D-XDP		Yes* ⁴	Yes	-
Headset Jack (ø2.5mm)		Yes	Yes	Yes
Auto Redial		Yes	Yes	-
Off-Hook Monitor		Yes	Yes	Yes
Handset/Headset Mic Mute		Yes	Yes	Yes
Speaker Phone Mic Mute		Yes	Yes	Yes
Phone Directory		Yes	Yes	Yes
Feature Access		Yes	Yes	-
(Out-going) Call Log		Yes	Yes	Yes
(In-coming) Call Log		Yes	Yes	Yes
Melody Ringer		10 titles	10 titles	-
Colour		Black or White	Black or White	Black or White
Option Unit Connention				
KX-DT301X USB Module		Yes	-	-
KX-NT303X Add-on 12 Key Module		Yes	-	-
KX-NT307X Bluetooth® Module		Yes	-	-
KX-DT390AL 60 DSS Console		Yes	Yes	Yes

SYSTEM CONNECTION DIAGRAM



*1 Single coloured LED

*2 Dual-coloured LED (Green & Red)

*3 20 ring types and 10 melodies are available.

*4 D-XDP not available when KX-NT307X or KX-NT301X connected.

FEATURES LIST

System Features

- Automatic Call Distribution (ACD)
- 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
- 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*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

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 on 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-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)*³
- 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 IP-GW)

Built-in Hotel Features

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

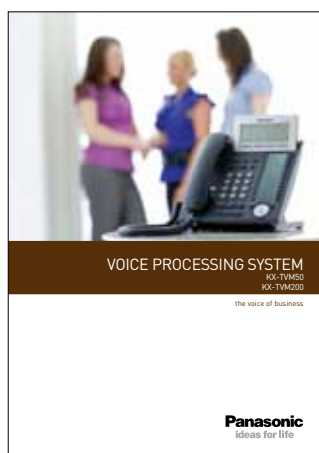
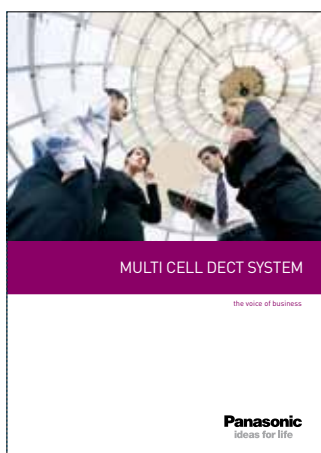
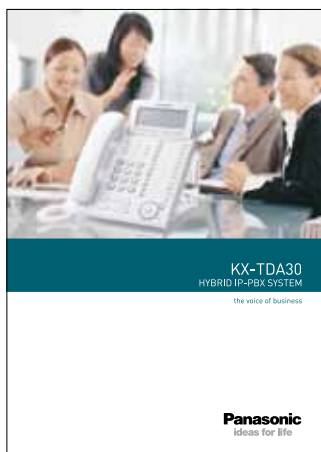
DPT: Digital Proprietary Telephone
APT: Analogue Proprietary Telephone
SLT: Single Line Telephone
PS: Portable Station

*1 When the KX-TDE Pure IP-PBX is integrated with a KX-TVM50 or KX-TVM200 Voice Processing System.

*2 This feature is unavailable on IP-PTS.

*3 Optional software required

Note: All these features in this feature list are supported on MPR Version 2.x



Head Office NSW

Austlink Corporate Park
1 Garigal Road
BELROSE 2085
PH: (02) 9986-7400
FAX: (02) 9986-7450



For further information or the location
of your nearest Panasonic Authorised
Dealer, please telephone **Panasonic**
Customer Care Centre on **132 600**

Design and specifications are subject to change
without notice. Printed in Australia - April 2010.

Panasonic
ideas for life