





New Panasonic IP PBX. The Rules have Changed!

Key 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)
- Lower cost of deployment with IP Phones (Installation & Network call costs reduced)
- Centralised Management & Upgrades

The Panasonic KX-TDE IP PBX Series are state of the art advanced corporate communication systems providing legacy TDM as well as enhanced IP telephony features and functionalities. Empowered with the latest SIP technology, the KX-TDE100 and KX-TDE200 IP-PBXs respond to the IP-phone market trend enabling low cost IP telephony, easy installation & maintenance, and desktop mobility. The system is highly modular and supports analogue, Digital & ISDN, SIP Trunks & Extensions, and Network with other systems, making it ideal for customers planning to expand into a Voice Over IP (VoIP) Solution at their own pace.

The KX-TDE IP Telecommunication Platform:



The TDE Systems - Designed for Today and for the Future

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

Enhance your business with a solution designed to meet and exceed your needs - with wireless mobility, users and business productivity applications, network applications and a common infrastructure that helps connect all your users, wherever they may be.

Straight forward and smooth migration path is the key for customers upgrading to converged solutions. Existing KX-TDA systems can be easily upgraded to the KX-TDE systems by simply replacing the main processor card (IPCMPR) to take advantage of all the new features and benefit from true convergence.

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

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

KX-TDE 100/200: 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 Analogue, Digital, IP Phone or SIP Phone Extensions

For Business

Reduce operation, installation and network call costs

- 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

- SNTP client, SNMP agent Support
- Analogue, Digital and IP Peer Peer Interoperability
- Easy system expansion



Digital, Wireless or New IP Telephone Terminals



With the new KX-TDE IP PBX - you can choose from any type of telephone terminals - digital, DECT wireless, or the new stylish IP telephones. And with support for all the digital, and IP phones designed for the KX-TDA PBX systems - the KX-TDE gives you an extensive choice of telephony terminals to suit your specific business telephony needs.

Digital Telephones

The KX-TDE IP PBX continues to support KX-T76xx series digital telephones. Developed specifically to meet the needs of businesses of all sizes, the Panasonic digital telephones incorporate sleek design, improved ergonomics, flexibility and enterprise-class voice quality.

With alphanumeric display, navigation keys, programmable keys, hands free convenience, extra device port (XDP) and digital XDP - the Panasonic digital telephones are packed with features for all your digital telephony needs



KX-T7600 series Digital Proprietary Telephones

DECT Wireless Mobility



KX-TCA series DECT wireless handsets

The KX-TDE PBX supports wireless mobility solution via an integrated Multi-Cell DECT System. This system provides automatic hand-over between installed wireless cells - enhancing coverage and giving you true communication mobility even within large premises.

Enjoy superb mobility no matter where you work, whether it is in an office, factory, warehouse, supermarket, or other large facilities. The Panasonic Multi-Cell DECT System keeps you in constant touch with colleagues and key customers even when you roam within your work area.

New IP Proprietary Telephones

The KX-TDE IP PBX supports the newly released KX-NT300 Series IP telephones that are stylish, intuitive, user friendly, highly appealing, and comfortable to use by all system telephone users.

The KX-NT300 series IP telephones take you to a new dimension in audio experience, communications productivity and customer care. The IP telephones bring you the power of the advanced KX-TDE IP PBX systems - allowing quick access to the entire spectrum of KX-TDE advanced features and applications.

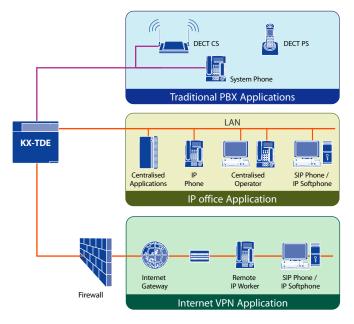
The IP telephones offer superb voice quality thanks to handsfree speakerphone and acoustic echo cancellation. The sleek, ultra-modern design, available in both black and white works well with any work environment and office decor.



KX-NT300 series IP Proprietary Telephones

Packed with a whole host of features, the KX-NT300 Series IP telephones could not be any simpler to use. The phones have large alphanumeric displays, electronic self-labelling keys, Bluetooth module providing wireless headset support, easy navigation key, a 2nd IP port (on certain models) to reduce desktop cable clutter, and double tilt adjustment allowing separate and independent tilt control for phone base and LCD display - all to provide you with enhanced desktop usability and comfort.

System Connection Diagram



Feature List

Incoming Call Features

- Direct In Line (DIL) Direct Inward Dialling (DID)/Direct Dialling In (DDI)
- Multiple Subscriber Number (MSN) Ringing Service
 Calling Line Identification (CLI) Distribution
- Intercept Routing
- Intercept Routing-No Destination
 Internal Call Block
- Ring Tone Pattern Selection
 Call Waiting

- **Receiving Group Features**
- Idle Extension Hunting
 Group Call Distribution
- Queuing Feature
- VIP Call
- Overflow Feature
- Log-in/Log-out
- Supervisory Feature

Call Forwarding (FWD)/ Do Not Disturb (DND) Features

Call Forwarding (FWD)
 Do Not Disturb (DND)

Answering Features

- · Line Preference Incoming Call Pickup
- Hands-free Answerback

Making Call Features

- Pre-dialling Automatic Extension Release
- Intercom Call
- Emergency Call
 Account Code Entry
- Dial Type Selection
- Reverse Circuit
- Trunk Busy Out
 Pause Insertion
- Host PBX Access Code (Access Code to the Telephone Company from a Host PBX)

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ideas for life

- Special Carrier Access Code
 Line Preference Outgoing

Trunk Access

- Memory Dialling Features
 One-touch Dialling
- Last Number Redial
- Speed Dialling Personal/System
- Ouick Dialling
- Hot Line

Busy Line/Busy Party Features • Automatic Callback Busy (Camp-on)

- Executive Busy Override Call Monitor
- Second Call Notification to Busy Extension
- Call Waiting Tone
 Off-hook Call Announcement (OHCA)*1
- Whisper OHCA

Toll Restriction (TRS)/ Call Barring (Barring) Features

- Toll Restriction (TRS)/Call Barring (Barring)
- Budget Management Extension Lock
- Dial Tone Transfer Walking COS
 Verified Code Entry

Automatic Route Selection (ARS) Features Automatic Route Selection

Conversation Features Hands-free Operation

- Off-hook Monitor
- Mute
- Headset Operation Data Line Security *1
- Flash/Recall/Terminate
 External Feature Access (EFA)
- Trunk Call Limitation Paralleled Telephone
- Calling Party Control (CPC) Signal Detection

Transferring Features • Call Transfer

Holding Features Call Hold

 Call Park Call Splitting
 Music on Hold

Conference Features Conference * Privacy Release

Paging Features Paging

Broadcasting Features Broadcasting

System Capacity

			KX-IDE100	KX-IDE200
Extension	System Total		256	256
	Built-in	IP Proprietary Telephone (IP-PT)	64	64
		IP Single Line Telephone (IP-SLT)	128	128
		Total	128	128
	Additional	IP Proprietary Telephone (IP-PT)	96	128
		Single Line (a/b) Telephone (SLT)	96	128
		Digital Proprietary Telephone (DPT) - DXDP	128	256
		Analogue Proprietary Telephone (APT)	64	64
		Direct Station Select (DSS) Console	8	8
		Voice Processing System (VPS)	2	2
		Total	128	256
Trunk	System Total		128	128
	Optional	VoIP Channel Card - DSP16 #1	32ch	32ch
		VoIP Channel Card - DSP64 #1	32ch	32ch
		Total	32	32
	Additional	Analogue Trunk	96	128
		ISDN Trunk - BRI	96 (48BRI)	128 (64BRI)
		ISDN Trunk - PRI	120 (4PRI)	120 (4PRI)
		IP-Gateway	64	64
		Total	120	128
Portable Station (PS)			128	128
Cell Station (CS)		32	32	
Extension Total #2			304	304

Walking Extension

Remote Extension Control by User

Enhanced Walking Extension

Audible Tone Features

Networking Features

TIE Line Service
 Virtual Private Network (VPN)

QSIG Network
 Calling/Connected Line Identification

Presentation (CNIP/CONP) - by QSIG • Call Forwarding (CF) - by QSIG

Presentation (CLIP/COLP) and Calling/Connected Name Identification

Network Direct Station Selection (NDSS)

· Voice over Internet Protocol (VoIP) Network

IP Proprietary Telephone (IP-PT) Features
• New IP Proprietary Telephone (IP-PT)
• Peer to Peer communication (NT300 series)

SIP Extension Support

SIP Trunk Support SIP 2.0. RFC3261 (UDP)

LAN Configuration Function LAN Configuration Setting Function

*1: This feature is unavailable with the IP-PT. *2: A SIP extension cannot originate a conference call,

but can be a member of a conference call.

IP-PT: IP Proprietary Telephone DPT: Digital Proprietary Telephone APT: Analogue Proprietary Telephone SLT: Single Line Telephone

Design and specifications are subject to change without notice.

ME-0307-KX-TDE100/200 preliminary 003. Printed in UK

Call Transfer (CT) - by QSIG
 Completion of Calls to Busy Subscriber (CCBS) -

Timed Reminder

Dial Tone
 Confirmation Tone

by QSIG

Outgoing

Incoming
 HOLD

Transfer

Outgoing

Incoming CLIP (Caller ID), and DDI.

• Ping

#1 One card per system. Connects to IPCMPR card #2: SLT+PT+IP Ext. + ISDN-Ext. (D-CH) + T1-OPX

Optional Device Features

- Door phone Call
- Door Open Trunk Answer From Any Station (TAFAS)
- Background Music (BGM)
 Outgoing Message (OGM)
- Direct Inward System Access (DISA)
 External Sensor
- External Relay Control

Caller ID Features

Caller ID Incoming Call Log

Message Features • Message Waiting Absent Message

- ISDN Service Features
- Calling/Connected Line Identification Presentation (CLIP/COLP)
- Advice of Charge (AOC)
- Call Forwarding (CF) by ISDN (P- MP)
 Call Forwarding (CF) by ISDN (P-P)
- Call Hold (HOLD) by ISDN
 Call Transfer (CT) by ISDN
- Three-party Conference (3PTY) by ISDN
 Malicious Call Identification (MCID)
- Completion of Calls to Busy Subscriber (CCBS)
 ISDN Extension
- ISDN Service Access by Keypad Protocol

E1 Line Service Features E1 Line Service

Portable Station (PS) Features

Portable Station (PS) Connection

- PS Ring Group PS Directory
 PS Feature Buttons
- Wireless XDP Parallel Mode

Call Charge Services

Hospitality Features

Extension Feature Clear

Room Status Control
 Call Billing for Guest Room

Administrative Information Features Station Message Detail Recording (SMDR) Printing Message

Extension Personal Identification Number (PIN)