

KX-TDA600

Hybrid IP-PBX



Panasonic
ideas for life

Intelligent, Versatile Communications Solutions



These days, if your company wants to stay competitive it needs technology and equipment to help it adapt to new business realities. The KX-TDA600 is a true converged communications system, designed with incredibly versatile ways for you to structure your company's communications network. You can build a quick, efficient, decentralized organization under an easy-to-maintain centralized hub.

State-of-the-art wireless capability is designed into the KX-TDA600, so it's easy to stay in touch with employees that are constantly on the move or away from their desks. For businesses with multiple locations our system can be networked together using advanced IP technology, ISDN, or basic T1 services. The KX-TDA600 supports centralized voice mail, which services all locations within the extended voice mail network, and Network BLF, which allows you to view the status of extensions in other locations.

The KX-TDA600 is a powerful and versatile communication system that will easily adapt to any business, providing solutions that will improve the way your business communicates.

Grows with You

The KX-TDA600's modular design lets you expand the system as your needs evolve. The Basic Shelf provides a maximum of 160 ports (288 ports with DXDP¹), and with the optional Expansion Shelf, the system grows to a maximum 640 ports (960 ports with DXDP²). Plus with the KX-TDA600's free slot architecture, you can easily insert expansion cards and access new features as well as expand your capabilities. This expandability means you can enhance system capabilities and features to meet your changing needs, without having to purchase a new system.



CO Lines
Digital Extensions

160
256 (288*)

320
512 (576*)

480
640 (800*)

640
640 (960*)

1 - Digital eXtra Device Port
2 - The number may vary depending on the configuration.

* using DXDP

Freedom, with Great Clarity



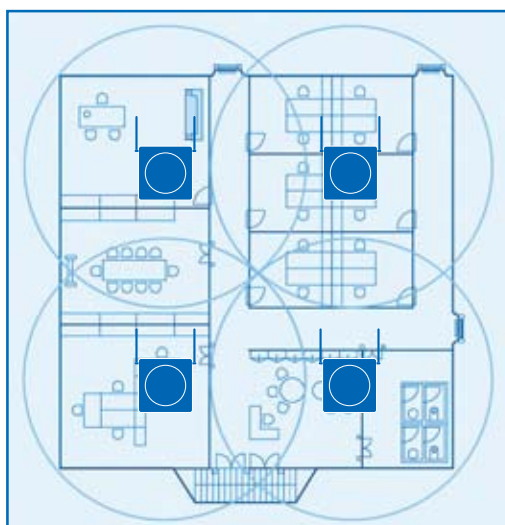
Integrating a Panasonic 2.4 GHz multi-cell wireless telephone with the KX-TDA600 lets you take the benefits of the system with you even when you leave your desk.

Have you ever had an important customer on the phone and needed to walk away from your desk? Panasonic 2.4 GHz multi-cell wireless is here to help. The Panasonic Hybrid IP-PBX system lets you simply continue your current conversation over a lightweight, business-smart wireless telephone while you are away from your desk or moving around the office.

This is accomplished by creating a wireless coverage area by installing cell stations throughout your location. No matter where you move throughout the coverage area, you stay connected because your wireless connection is handed off from cell to cell seamlessly.

Benefits of 2.4GHz Wireless Telephone Integration

- Up to 512 Handsets can be Connected to One System
- Handsets can be Registered on up to 4 Systems
- Secure High-Quality Speech Reproduction and Excellent Reliability
- Caller ID Name and Number Compatible*
- Programmable Multiple Ring Patterns, including Vibrate Mode
- Access to 1000 System and 100 Personal Speed Dial Numbers



KX-TD7690



- Premium Wireless Telephone
- 2.57oz
- Up to 12 CO or Feature Soft Keys can be Programmed
- Speakerphone
- Auto Answer
- 2.5mm Headset Jack
- 5-line LCD Display

KX-TD7680

- Wireless Telephone
- 5.3oz
- Up to 12 CO or Feature Keys can be Programmed
- Speakerphone
- Auto Answer
- 3-line LCD Display



* Requires subscription to fee-based telephone service

Feature-Rich, Attractive and Easy to Use



Panasonic has phones perfect for your budget and needs. No matter which phone you choose, each is equipped with the standard features that will help you achieve new levels of communication ease. For greater convenience, choose from our line of high-end phones equipped with large LCD displays with soft key functionality.

- Programmable Keys with Red/Green LED
- Easy-to-Read Back-lit Display
- Time-Saving, Easy-to-Use Navigator Keys
- Ergonomically-Designed, 4-Step, Tilt-Angle Adjustment
- Simple Plug-n-Play USB Connection to a PC (KX-T7636 and KX-T7633 equipped with a KX-T7601)
- Headset Jack for Hands-Free Convenience
- Digital Duplex Speakerphone

KX-T7636 with KX-T7603

- 6-Line Back-lit Display
- 24 Programmable CO Keys
- Digital Speakerphone
- Compatible with Optional 12 CO Keys and USB Port
- eXtra Device Port (XDP) and DXDP
- KX-T7603 12-button Add on-Module



KX-T7633

- 3-Line Back-lit LCD Display
- 24 Programmable CO Keys
- Digital Speakerphone
- Compatible with Optional 12 CO Keys and USB Port
- eXtra Device Port (XDP) and DXDP



KX-T7630

- 3-Line LCD Display
- 24 Programmable CO Keys
- Digital Speakerphone
- eXtra Device Port (XDP) and DXDP



KX-T7625

- Digital Speakerphone
- 24 Programmable CO Keys
- eXtra Device Port (XDP) and DXDP



KX-T7640

- Digital DSS Console
- 60 Direct Stations Selection (DSS) Keys



KX-T7667

- 1-Line Back-lit LCD Display
- 12 Programmable CO Keys
- Message/Ringer Lamp
- Digital Speakerphone
- DXDP

IP Telephones An Affordable Alternative Solution



Panasonic IP phones support the latest VoIP technology and are a perfect way to give telecommuters and remote employees access to corporate voice services.

As telecommuting and remote locations become the best way to organize your business, it's necessary to have an affordable and effective solution to keep your off-location employees and offices connected. The VoIP (Voice over IP)-enabled Panasonic telephony solution gives your employees easy access to your company's central communication hub, letting them enjoy the feature-rich capabilities of the TDA Hybrid IP PBX - regardless of their location. And you can turn your PC into a phone with the IP Softphone, giving you and your employees yet another convenient way to communicate over long distances.

VOIP utilizes your existing broadband backbone, so upgrade to a cost-effective and efficient decentralized network and make the most of the communications infrastructure your company already has.

KX-NT265 VoIP Telephone

- Speakerphone
- 8 Programmable CO Keys with Dual Color LED
- 1-Line Alphanumeric Backlit LCD Display
- Large Message/Ringing Lamp (red/green)
- AC-or Ethernet-Powered
- Headset Jack



KX-NT136 VoIP Telephone

- Speakerphone
- 24 Programmable CO Keys with Dual Color LED
- 6-Line Alphanumeric Backlit LCD Display
- Large Message/Ringing Lamp (red/green)
- Ethernet Port for PC
- AC or Ethernet Powered
- Headset Jack

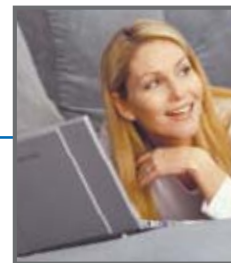


KX-TDA0350 VoIP Softphone

- Allows a PC to Operate as a system telephone
- Emulates a KX-NT136 Telephone
- 24 Programmable CO Keys with Dual Color Indicators
- 6-Line Alphanumeric Display with Interactive Soft Keys
- Easy-to-Use Keyboard or Mouse Operation
- Message Waiting Indicator for VM
- Network Connection Indicator



- Panasonic IP telephones look and work just like our standard phones with access to most of the TDA system features. This makes TDA system telephones easy for employees to learn and operate.
- Superior voice quality is ensured through the conversion of digital voice data into standard RTP/IP packets, which are then transmitted over the TCP/IP network. This facilitates Quality of Service by supporting VLAN tagging (802.1p/ Q) to enable dedicated bandwidth to handle voice traffic. The IP VPN tunnel helps ensure that voice speech is encrypted, so to minimize the chance of eaves-dropping as the voice packets travel over the Internet.
- Employee moves within the network are easy since phones can be plugged into new LAN locations with virtually no reprogramming.
- Setting up your VoIP network is inexpensive - IP phones use a standard broadband Internet connection*, so they're integrated easily into your existing broadband network. You can even consolidate your long distance calling through the central TDA PBX voice network and dialing plan, giving you the simplest, most affordable communications solution ever.



*Requires a VPN connection and additional hardware.

Excellent Reliability and Maintenance



The KX-TDA600 is assured by rigorous quality control and extensive testing before it leaves the factory, and comes with a 2-year warranty. The system is also designed for quick, easy maintenance, keeping downtime to an absolute minimum so your company can operate with as little disruption as possible. You can also change or upgrade modules without switching off the system. The KX-TDA600 is RoHS compliant, meeting the international standard for the restriction of the use of certain hazardous substances in electronic equipment, ensuring your system will meet the international environmental standard that's becoming increasingly important.

Programming & Maintenance

Panasonic certified technicians use a Windows-based programming tool with multiple password-protected access points to program the system and perform maintenance. The system can also be accessed remotely via an optional dial-up modem or through the Internet.

Secure Digital (SD) Card

Even if your system suffers a catastrophic failure, all of your system information is saved and can be reloaded easily with our Secure Digital (SD) card. In addition, the SD card makes it simple to upgrade the system with new features.



Intelligent Call Management

For businesses with high-volume customer call traffic, keeping calls flowing smoothly and quickly is essential. Panasonic KX-T7636, and KX-T7633 digital telephones equipped with a USB module do their part by connecting to a personal computer via USB, allowing telephone systems and computer systems to share the workload. For example: PC Phone allows you to use your Microsoft Outlook contact list to make calls. You can also create your own pop-up call notification screens for incoming calls based on caller ID* or your Microsoft® Outlook® contact list. This Computer Telephony Integration (CTI) helps enhance both efficiency and customer satisfaction, because employees can handle calls quickly and more appropriately for each occasion.



*requires fee-based phone company service

Integrated Solutions

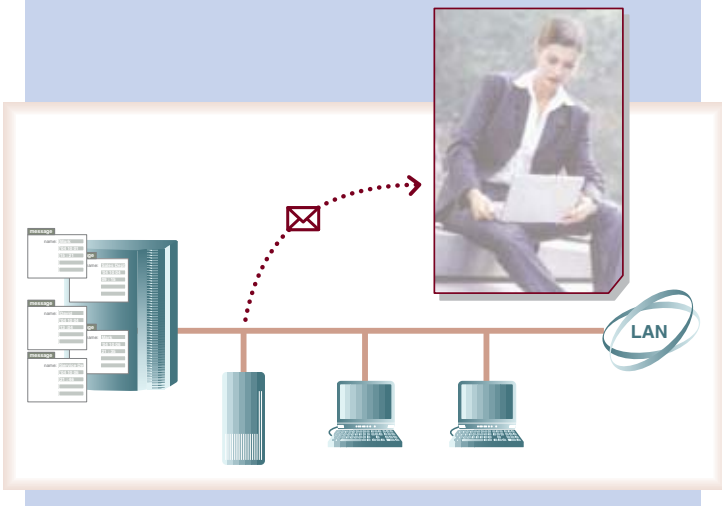


The KX-TDA600 is a truly integrated system, connecting your dispersed, off-location offices and employees, while giving you full access to the system's incredibly rich and varied features. Your employees can use the latest in communication technology, and you can manage and maintain your network to your exact specifications.

Panasonic integrated solutions provide a wide variety of options that allow you to design a system that will meet your current and future business requirements – saving you time and money, and maintaining employee and customer satisfaction.

Integrated Messaging Solutions

Get an edge in handling your customers' calls with integrated messaging solutions which automates your message delivery so your customers can get the quick and easy support they deserve. You also benefit from a system that takes messages automatically and keeps you in touch 24 hours a day. And of course, you'll love the cost savings. Panasonic messaging solutions mean convenience for you and satisfaction for your customers.



Email Integration and Voice Mail with Auto Attendant



By adding a KX-TVA series voice processing system, your calls can be easily managed by using the built-in automated attendant service, voice mail with email integration, and more. And with the high level of integration between the KX-TVA and the KX-TDA600, you can enjoy features like voice mail LCD menus that allow you to access and manage your voice mailbox using the LCD display and soft keys. With all these choices, it's easy to custom design a system that's right for you.



KX-TVA200

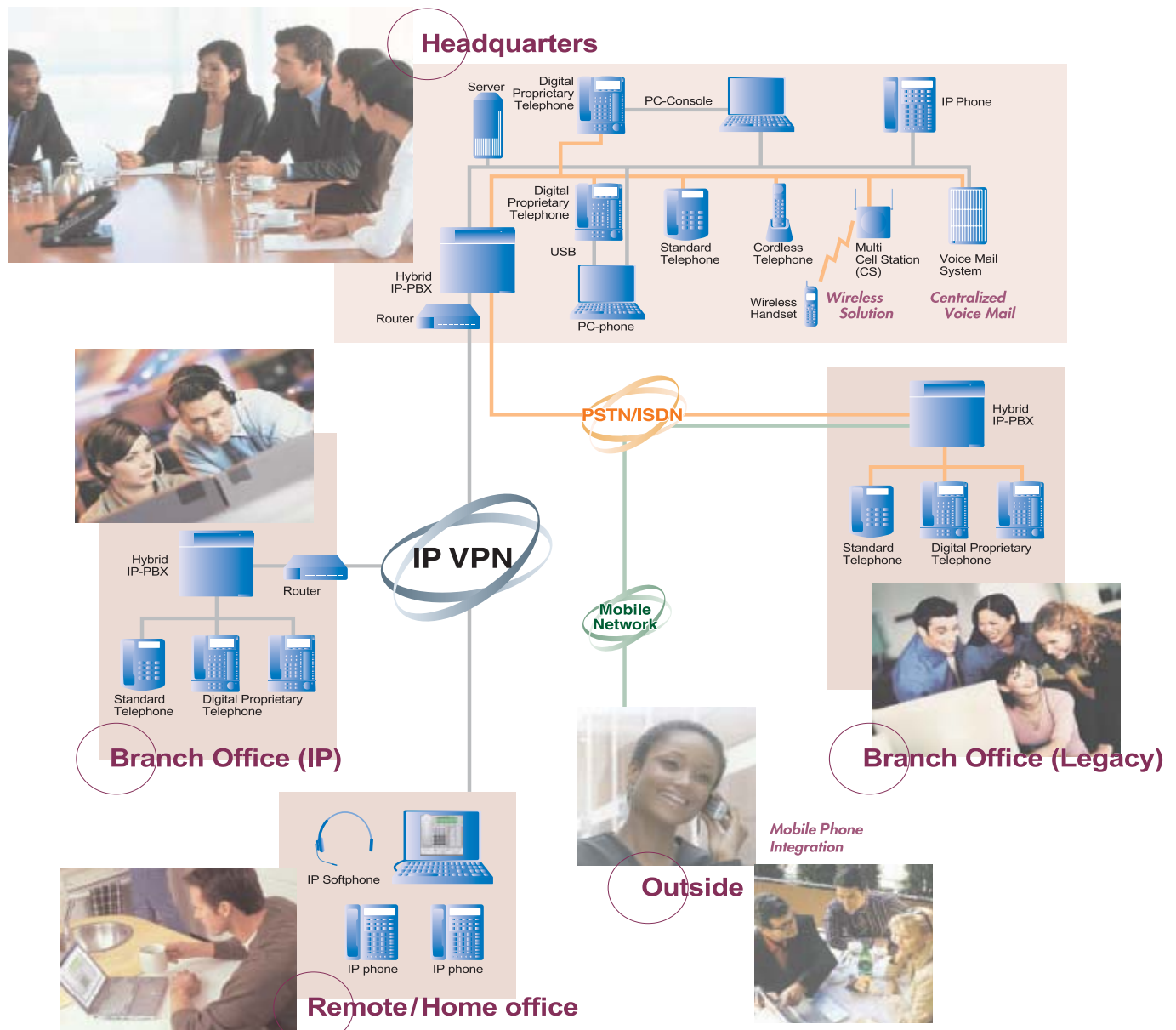
- 4 to 24 Ports and 1024 Mailboxes
- 1000-hour System Recording Time
- E-message
- Telephone LCD Voice Mail Menu
- Customer Service
- Live Call Screening (LCS)
- Two-way Recording
- Two-way Transfer

Networking Solutions

Flexible networking solutions let you build your company's office and employee structure for the 21st century: employees can telecommute and satellite offices can be brought under a single, easily-managed network. They're designed to help your business benefit from cost savings and infrastructure improvements of VoIP technology. By combining rich voice communications with enterprise data networks and applications, Panasonic helps you accomplish your most important business objective - delivering lower costs and enhanced value from your network infrastructure investment.

VoIP is the latest proven technology for voice communications in which packets of digitally compressed voice are sent over data networks, and then are converted back to voice once it reaches its destination. By leveraging existing data networks, VoIP can bypass PSTN and therefore help avoid costs associated with PSTN calls no matter how far the distance and how long the conversation. VoIP is an ideal solution for site-to-site communications between multi-site offices - as well as for networking branch office

and remote employees, small office/home office (SOHO) workers, and home sales personnel. This allows for a flexible working environment and lower costs.





Choose the Network Medium That's Right For You

The KX-TDA600 lets you choose the communication medium that works best for your business. VoIP allows your business to connect over your existing broadband network, and ISDN transmits digital voice data over your existing telephone wires. Both feature QSIG, a high-level protocol for system-to-system communications, allowing your network to operate as if it were a single, cohesive unit. For the simplest option, use a T1 network, connecting you from Point A to Point B over a crystal clear voice channel.

Centralized Voice Mail and Network BLF

For businesses with multiple locations, our systems can be networked together using advanced IP technology or ISDN. The KX-TDA600 supports centralized voice mail, which services all phones within the network with features like Network BLF, which allows you to view the status of extensions in other locations.

Wireless Station Roaming

Within a network, one wireless phone can be registered to a maximum of 4 KX-TDA systems. This allows a wireless station user to go to other offices and receive calls directed to them on their wireless station. This is accomplished by entering the remote nodes extension information into one TDA location so calls directed to it at one location can be handled at any location transparently.

Call Center Solutions

Your phone calls can be distributed and organized according to purpose and priority, making your call center more efficient while treating your customers right. You can tailor-fit your system to your exact needs with the KX-TDA600's powerful information reports. Calls can be queued while your team is busy with other calls, and music or prerecorded promotional messages can be played for waiting callers to help reduce lost calls and missed business opportunities.

You can also assign an additional backup destination for calls that are not answered within a specific period of time. Preferred customers and VIPs can even have their calls connected with priority or to a specific staff member, allowing you to provide special attention to special clients.



UCD (Unified Call Distribution)

The KX-TDA600 can be programmed to handle incoming calls so they get to the correct department or individual without any disruption to the caller. Calls can be directed to a specific individual, group, live or auto attendant, voice mail, or any combination of the above.

KX-NCV200 ACD Report Server

The NCV200 ACD report server brings call center functions to your KX-TDA600, providing you with monitoring and performance reports, call information history, and agent log-in. It's easy to optimize call center management with NCV200's readable and comprehensive performance reports, which can be reproduced in emails or color graphs.



KX-TDA600 DIGITAL HYBRID IP-PBX SYSTEM FEATURE LIST

Absent Message System - 8	Extension Groups	Off-Hook Monitoring (KX-T7431, 7433, 7436, 7600 Series)
Absent Message Extension	Extension Name on Display When Idle	Off-Hook Voice Announce (KX-T7235, T7436, 7600 Series)
Account Code Entry (Forced Verified)	Executive Hold	One Touch Dialing - 32 Digits
Account Code Entry (Optional)	Executive Override	On-Site Programming Diagnostics
A.R.S. (Automatic Route Selection)	Executive Override Deny	Operator Call
Automated Attendant (with DISA/OGM)	External Modem Support	Paging Groups - 96
Automatic Answer, Intercom and Transferred Calls	External Paging Ports	Personal Speed Dialing - 32 Digits, 10 Entries, 32 Digits, 100 Entries with EMEC
Automatic CO Hunting	External Sensor Input	Portable Station Roaming (using network ICD group)
Automatic Fault Logging	Flexible CO Keys (DSS/BLF, One Touch Dial)	Power Failure Transfer
Automatic Rerouting of VoIP Calls to Public CO	Flexible DSS Keys (One Touch, Feature Access)	Pre-Selection (Central Office or Intercom)
B.G.M. (Background Music) Jack	Flexible Key Assignments	Privacy Release
Call Back Busy	Flexible Line Assignment	Quick Dial - 80 + 1000 with EMEC Card
Call Forwarding	Flexible Night Service/Programmable/Manual	Remote Programming and Diagnostics
Call Hunting (Terminal or Circular)	Flexible Ringing Assignment (Day, Night)	Remote Station Lock Control
Call Log (Outgoing - 100 Per Ext., 5x1152 Per System)	Flexible Ring Assignment (Lunch)	Ring Groups
Call Log (Incoming - 100 Per Ext., 10x1280 Per System)	Flexible Station Numbering	Ring Groups DISA
Call Parking Zones - 100	Hands-Free Answer Back Intercom	Ringing Line Preference
Call Park Retrieve	Handset/Headset-Display Phones	Saved Number Redial
Call Pick Up Groups - 96	Hold	Secret Dialing
Call Transfer/Transfer Recall	Hold Recall/Hold Reminder	Seven Day ARS Time Tables
Call Waiting	Hotel/Motel Features	S.M.D.R. (Station Message Detail Recording)
Caller ID, Call Logging	Ring Message Waiting	Station Name Display
Caller ID, Call Log Lock	Redial - 32 Digits	Station to Station Messaging
Caller ID, Callback	Remote Station Lock	Station Speed Dial Numbers (10)
Caller ID, Call Waiting	Quick Dialing	System Speed Dialing - 32 Digits, 100 Entries
Caller ID, Date and Time Adjust	Room Status	TAPI Compliant V1 + V2
Caller ID (Name and/or Number)	ICD group call distribution to longest idle extension - 128	T1 Interface
Caller ID TO SLT	ICD group proprietary telephone simultaneous ring - 128	T.A.F.A.S. (Trunk Answer from any Station)
Class of Service - 64	ICD group ring with cellular phones	Tenant Service
Cellular Phone XDP Parallel	ICD groups - 128	Toll Restriction
Centralized VM (Requires KX-TVA200 VP system)	ICD groups members	Toll Restriction Override
CO access through VoIP using PIN	Incoming call log for answered ICD group call	Tone/Pulse Conversation
CO Limited Duration Timer	Industry Standard Telephone Capability	Tone/Pulse Dialing (By CO Line)
CO Line Names	Internal Paging (All Call Paging)	Transfer from cellular phone
CO Line Status (Two Color LED)	Internal Paging (Zone Paging)	Transfer (Screened/Unscreened)
Common extension numbering plan for two PBXs	ISDN Primary Rate Interface (PRI) with QSIG	Trunk Groups
Conference Calling - 3x10, 8x4 Per Shelf	Last Number Redial	Two-Way Record (DPITS)
Data Line Security (for Fax or Modem)	Limited Call Duration	Two-Way Transfer (DPITS)
Data and Time Display	Live Call Screening (DPITS only)	User Groups - 96
Delayed Ringing	Live Call Screening, Remote (DPITS only)	Unattended Conference Call
D.I.L. (Direct in Line)	Login/Logout (Hunt, Ring, UCD)	Uniform Call Distribution without OGM
D.I.S.A. automatic access by cellular phone	Login/Logout	Uniform Call Distribution with OGM
D.I.S.A. (Direct Inward System Access)	Lunch/Break Mode	Voice Mail, Automatic Configuration (DPITS only)
D.I.S.A. Single Digit Access	Memory Back-up	Voice Mail Integration (Inband)
Distinctive Ringing Tone (CO, Intercom)	Message Waiting—Proprietary Phones	Voice Mail Integration (DPITS)
Distinctive Ring Tone (Doorphones)	Message Waiting SLT	Voice Mail Systems - 8
D.N.D. (Do Not Disturb)	Military Time Display	VOIP Gateway
Do Not Disturb Override	M.O.H. (Music on Hold)	VOIP Extension
Door Intercoms/Door Opener Contacts	Multi-Cell Wireless	Walking Class of Service
DSS/BLF Consoles	Multilingual Displays (5)	Whisper OHCA
Dual Port Usage (Parallel SLT Station)	Multiple Voice Mail Lamps	Wrap-up for outgoing call
Duration Time of Call Display	Network Call Forward for PRI23 QSIG	
DXDP	Network Call Transfer for PRI23 QSIG	
Electronic Station Lock	Network DSS, 250 keys for 8 TDA PBXs	
Emergency Call - 32 Digits, 10 Entries	Network ICD group	
End of call detection for analog CO-CO by DISA	Off-Hook Tone Signaling	

LIMITED WARRANTY

- All Panasonic supplied "KX-TDA" Digital Hybrid IP-PBX + components and KX-T7600 series (wired telephones) 2 year Parts and Labor (some models)
- All other Panasonic supplied Hybrid, Digital Hybrid and Voice Processing Components 1 Year Parts and Labor

ALL OF THE ABOVE SUBJECT TO TERMS OF WRITTEN WARRANTY

Endless Solutions with Digital Communication



Manufacturing

Logistics

Call Center
Customer Service

Sales/Marketing

Engineering

Personal contact with your customers is essential for success, and the communications system you choose determines how well you stay connected. That's why Panasonic builds its products with the quality and reliability you can count on. Whether it's IP, traditional telephony, wireless technology, or decentralized networks, the Panasonic Hybrid IP PBX systems keep you in touch.

Certification Program

The KX-TDA600 and associated equipment are Panasonic Consumer Electronics Company certified dealer models. Visit www.Panasonic.com/csd to locate a certified dealer near you.

Panasonic



KX-TDA600 SYSTEM SPECIFICATIONS

Control Bus		Original bus (16-bit, 8 MHz, 10 megabytes per second)
Communication Bus		H, 100 bus conformity (1024 time slots)
Switching		Distributed Switching
Power Input	PSU-M	100 V AC to 130 V AC, 2.5 A/200 V AC to 240 V AC, 1.4 A, 50 Hz/60 Hz
	PSU-L	100 V AC to 130 V AC, 5.1 A/200 V AC to 240 V AC, 2.55 A, 50 Hz/60 Hz
External Battery		+36 V DC (+12 V DC x 3, recommended maximum capacity per shelf is 28 Ah)
Memory Backup Duration		7 Years
Dialing	Trunk	Dial Pulse (DP) 10 pps, 20 pps Tone (DTMF) Dialing
	Extension	Dial Pulse (DP) 10 pps, 20 pps Tone (DTMF) Dialing
Operating Environment		Temperature 0 °C to 40 °C Humidity 10% to 90% (non-condensing)
Conference Call Trunk (per shelf)		From 10 x 3-party conference call to 4 x 8-party conference call
Music on Hold (MOH)		2 ports (Level Control: -11 dB to +11 dB in 1 dB steps) MOH1: External Music Source Port MOH2: Selectable Internal/External Music Source port
Paging	Internal	Level Control: -15 dB to +6 dB in 3 dB steps
	External	2 ports (Volume Control: -15 dB to +15 dB in 1 dB steps)
Serial Interface Port	RS-232C	1 (maximum 115.2 kbps)
	USB	1
	Extension Connection Cable	SLT 1-pair wire (T, R) DPT 1-pair wire (D1, D2) or 2-pair wire (T, R, D1, D2) APT 2-pair wire (T, R, D1, D2) PT-interface CS 1-pair wire (D1, D2) DSS Console and Add-on Key Module 1-pair wire (D1, D2)
Dimension	Basic Shelf	16.9" (W) x 16.3" (H) x 10.6" (D)
	Expansion Shelf	16.9" (W) x 16.3" (H) x 10.6" (D)
Weight (when fully mounted)	Basic Shelf	Under 35.27 lbs.
	Expansion Shelf	Under 35.27 lbs.
Minimum Number of Extension Instruments per Line		1 for PT or SLT 2 by Parallel or eXtra Device Port connection of an APT/DPT and an SLT 3 by Digital eXtra Device Port connection of 2 DPTs and an SLT

MAXIMUM TERMINAL EQUIPMENT CHART

Equipment Type		Maximum Cards Per Shelf			
		1 Basic Shelf	2 Expansion Shelf	3 Expansion Shelf	4 Expansion Shelf
Telephones Without DXDP		160	320	480	640
Telephones With DXDP		(240) ¹	(480) ¹	(720) ¹	(960) ¹
	Single Line Telephones SLT	160	320	480	640
	KX-T7600 series				
	DPT	160	320	480	640
	Other DPT	128	256	384	512
	APT	80	160	240	320
	IP-PT	160	230	480	640
DSS Console		64			
Cell Stations		32	64	96	128
Wireless Phones (without an EMEC card)		256			
Wireless Phones (with an EMEC card)		512			
Voice Processing System (VPS)²		8			
Doorphone		16	32	48	64
Door Opener		16	32	48	64
External Sensor		16	32	48	64
External Relay		16	32	48	64
Add-on Key Module		160	320	480	640
USB Module		160	320	480	640

¹ Even when Digital XDP is used, each shelf supports a maximum of 160KX-T7600 series DPTs.

² Only a single VPS can be connected to one optional service card.

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Panasonic

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