

# Panasonic KX-TDA600SN

## 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 DXDP<sup>1</sup>), and with the optional Expansion Shelf, the system grows to a maximum 640 ports (960 ports with DXDP<sup>2</sup>). 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



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

\* using DXDP

# 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.



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## 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

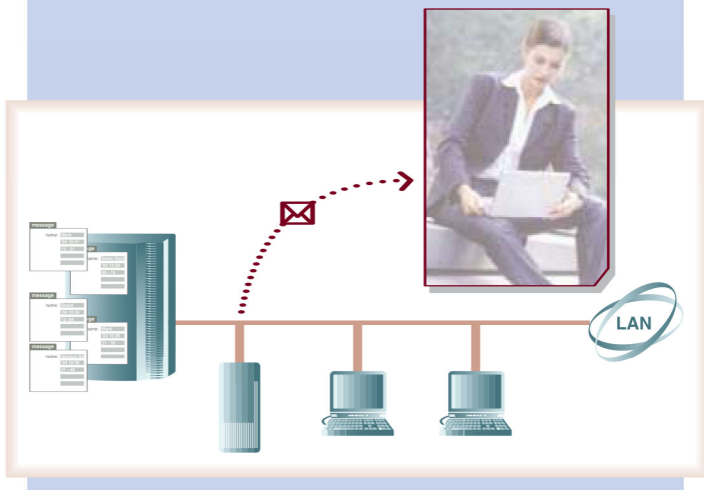


*The KX-TDA600 is a truly integrated system, connecting your dispersed, off-location offices and employees, while giving you full access to the system's incredibly rich and varied features. Your employees can use the latest in communication technology, and you can manage and maintain your network to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

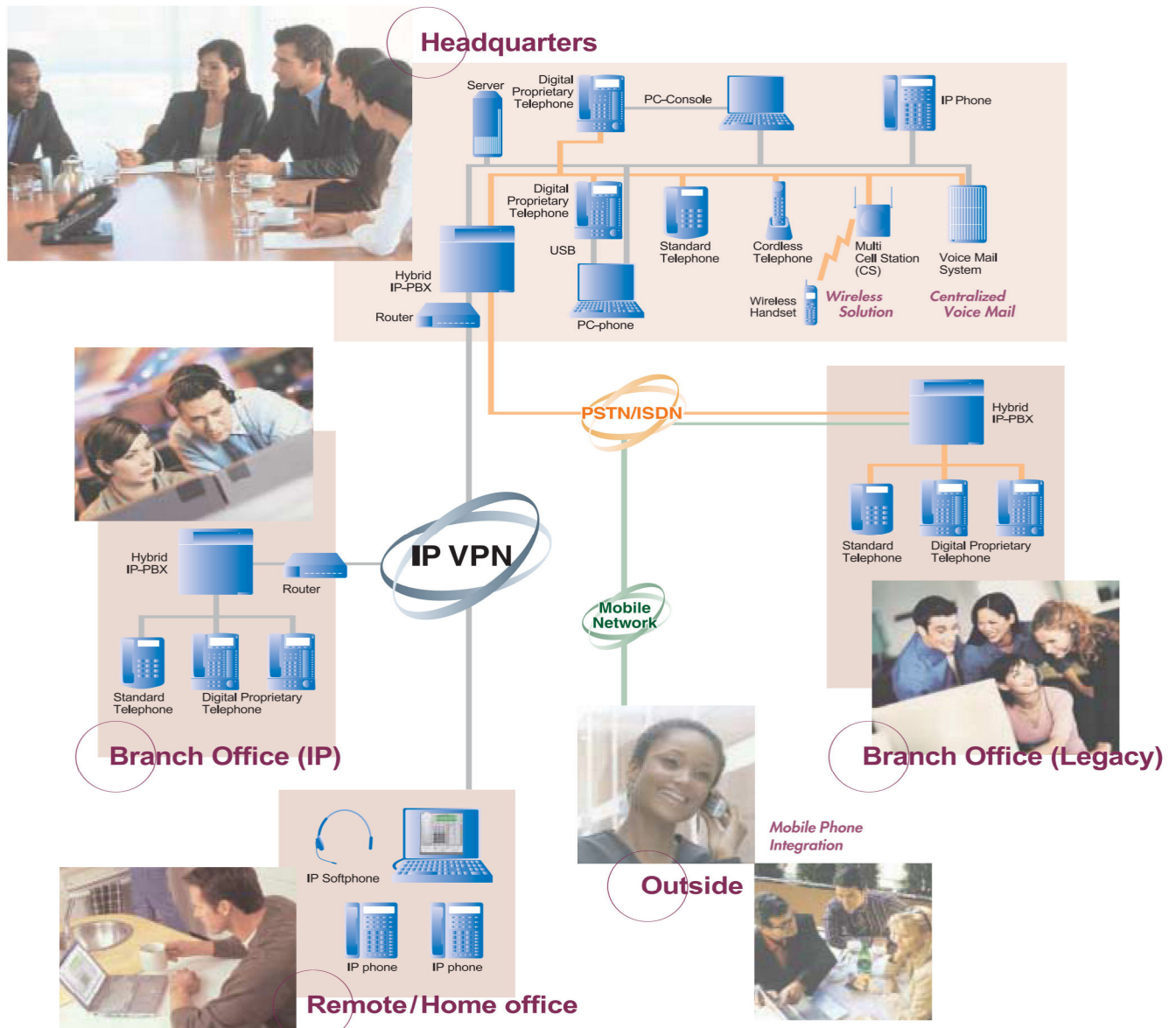
- 4 to 24 Ports and 1024 Mailboxes
- 1000-hour System Recording Time
- E-message
- Telephone LCD Voice Mail Menu
- Customer Service
- Live Call Screening (LCS)
- Two-way Recording
- Two-way Transfer

# 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)

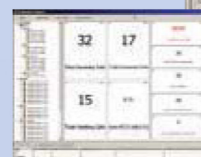
The KX-TDA600 can be programmed to handle incoming calls so they get to the correct department or individual without any disruption to the caller. Calls can be directed to a specific individual, group, live or auto attendant, voice mail, or any combination of the above.

## 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.



ACD Report



Performance Graphs

ACD Monitor

## 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**



## KX-TDA600 SYSTEM SPECIFICATIONS

<b>Control Bus</b>		Original bus (16-bit, 8 MHz, 10 megabytes per second)
<b>Communication Bus</b>		H, 100 bus conformity (1024 time slots)
<b>Switching</b>		Distributed Switching
<b>Power Input</b>	<b>PSU-M</b>	100 V AC to 130 V AC, 2.5 A/200 V AC to 240 V AC, 1.4 A, 50 Hz/60 Hz
	<b>PSU-L</b>	100 V AC to 130 V AC, 5.1 A/200 V AC to 240 V AC, 2.55 A, 50 Hz/60 Hz
<b>External Battery</b>		+36 V DC (+12 V DC x 3, recommended maximum capacity per shelf is 28 Ah)
<b>Memory Backup Duration</b>		7 Years
<b>Dialing</b>	<b>Trunk</b>	Dial Pulse (DP) 10 pps, 20 pps Tone (DTMF) Dialing
	<b>Extension</b>	Dial Pulse (DP) 10 pps, 20 pps Tone (DTMF) Dialing
<b>Operating Environment</b>	<b>Temperature</b>	0 °C to 40 °C
	<b>Humidity</b>	10% to 90% (non-condensing)
<b>Conference Call Trunk (per shelf)</b>		From 10 x 3-party conference call to 4 x 8-party conference call
<b>Music on Hold (MOH)</b>		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
<b>Paging</b>	<b>Internal</b>	Level Control: -15 dB to +6 dB in 3 dB steps
	<b>External</b>	2 ports (Volume Control: -15 dB to +15 dB in 1 dB steps)
<b>Serial Interface Port</b>	<b>RS-232C</b>	1 (maximum 115.2 kbps)
	<b>USB</b>	1
<b>Extension Connection Cable</b>		<b>SLT</b> 1-pair wire (T, R)
		<b>DPT</b> 1-pair wire (D1, D2) or 2-pair wire (T, R, D1, D2)
		<b>APT</b> 2-pair wire (T, R, D1, D2)
		<b>PT-interface CS</b> 1-pair wire (D1, D2)
		<b>DSS Console and Add-on</b> 1-pair wire (D1, D2)
		<b>Key Module</b>
<b>Dimension</b>	<b>Basic Shelf</b>	16.9" (W) x 16.3" (H) x 10.6" (D)
	<b>Expansion Shelf</b>	16.9" (W) x 16.3" (H) x 10.6" (D)
<b>Weight (when fully mounted)</b>	<b>Basic Shelf</b>	Under 35.27 lbs.
	<b>Expansion Shelf</b>	Under 35.27 lbs.
<b>Minimum Number of Extension Instruments per Line</b>		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) <sup>*1</sup>	(480) <sup>*1</sup>	(720) <sup>*1</sup>	(960) <sup>*1</sup>
	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
<b>DSS Console</b>		64			
<b>Cell Stations</b>		32	64	96	128
<b>Wireless Phones (without an EMEC card)</b>		256			
<b>Wireless Phones (with an EMEC card)</b>		512			
<b>Voice Processing System (VPS)<sup>*2</sup></b>		8			
<b>Doorphone</b>		16	32	48	64
<b>Door Opener</b>		16	32	48	64
<b>External Sensor</b>		16	32	48	64
<b>External Relay</b>		16	32	48	64
<b>Add-on Key Module</b>		160	320	480	640
<b>USB Module</b>		160	320	480	640

<sup>\*1</sup> Even when Digital XDP is used, each shelf supports a maximum of 160KX-T7600 series DPTs.

<sup>\*2</sup> Only a single VPS can be connected to one optional service card.

Available at:

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