KX-TDA50

Digital Hybrid IP-PBX System

Making the System Work for You.

Panasonic is a major worldwide innovator in business telephone system engineering, and has consistently provided state-of-the-art telephone equipment for more than 40 years.

Nowadays, if your business is to remain competitive, it needs a communication solution that can change rapidly with you.

The KX-TDA50 was designed to provide growth for your business while maintaining a small, compact design. It also gives you the tools you need to provide small business solutions at an affordable price.

What that means to you is, if you find that your needs have grown, you can add additional cards and telephones to your existing system without having to buy a whole new one.

System Overview

The design of the KX-TDA50 allows you to expand your system as your needs grow by plugging in additional cards and telephones to the plug-in architecture. This means, if you start with a basic system and find that your needs have grown, you can add additional cards and telephones to your existing system without having to buy a whole new system.

In terms of maximum capacity, the KX-TDA50 can support up to 8 CO lines and 24 wired extensions and up to 28 wireless handsets. All of the Panasonic KX-T7000, 7200, 7300, 7400, 7600 and 7700 series proprietary telephones work with the KX-TDA50 system. So, if you already own a Panasonic system with one of these phone series it will be less expensive to upgrade to this system. And, while you are upgrading, don't forget that the KX-TDA50 can also be easily upgraded to our multi-cell wireless telephones, so it's easy to keep on top of things in a busy working environment.

Additionally, the KX-TDA50 has a small, compact design. But that does not diminish its capabilities. A state-of-the-art engineering design has enabled the production of a small system that provides for a large amount of features while taking up less room.

One of the great things about this system is that it has an optional internal IP Gateway Card for VoIP communications. By using the optional VoIP connection you can connect to a Local Area Network (LAN) or a Wide Area Network (WAN) networking multiple locations using VoIP at virtually no cost to the user! The cost savings come from achieving greater use of your fixed cost infrastructure and less use of variable cost telephone lines.

The KX-TDA50 allows you to add a new level of security to your business with the support of optional door intercoms and electrical contacts that permit you to control an electronic door strike or any other compatible electric device through the telephone. Each door intercom has its own distinctive ring and LCD display information so you can easily identify which doorphone has been activated. With the KX-TDA50 you can use up to 4 doorphones and 4 contact closures.

By adding a KX-TVA 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 Voice Processing System and TDA systems you can enjoy features like, Voice Mail Menu that allows you to access and manage your voice mailbox using the LCD display on your telephone, and several other features that are listed here. This powerful combination of flexibility, high performance and value have made Panasonic Communication Sytems number one in Key Telephone/Hybrid Systems.* With all these choices it's easy to custom-design a system that is right for you.

The Panasonic KX-TDA50

A complete communications solution for

both small and medium-sized businesses.

2.4GHz Wireless Telephone

Integrating 2.4GHz Multi-Cell wireless telephones with the KX-TDA50 means that the benefits of your phone system can now "follow" you where ever you are on your premises.

Digitally enhanced wireless telephony allows voice and data transmission via radio waves, within the range of up to 8 strategically placed cell stations. As you move throughout the coverage area, the system provides seamless communication by handing off the call from cell station to cell station. It's a low-cost and highly flexible solution that keeps people connected whether they are in the warehouse, in a showroom, in a home or just about anywhere on site.

2.4GHz Multi-Cell Wireless Telephone System Features

- 28 handsets can be registered to one system (Up to 16 can be used simultaneously)
- Handsets can be registered on multiple systems (Office and Home)
- Secure high quality digital speech transmission and reliability
- Caller ID[1] name and number compatible
- Programmable multiple ringer types, including a silent vibrate mode
- Access to 1000 system and 100 personal speed dial numbers

KX-TD7690

- Premium Wireless Handset
- Only 2.57 Ounces
- Up to 12 CO or Feature Soft Keys can be Programmed
- Speakerphone
- Auto Answer
- 2.5mm Headset Jack
- 5-Line Backlit LCD Display

KX-TD7680

- Wireless Handset
- 5.3 Ounces
- Up to 12 CO or Feature Keys can be Programmed
- Speakerphone
- Auto Answer
- 2.5mm Headset Jack
- 3-Line Backlit LCD Display

1– Requires subscription to fee-based telephone company service.

Features That Mean Business

The Panasonic Digital Proprietary Telephone comes in four models. With features such as an easy-to-read large backlit LCD and four tilt positions, it not only looks good but makes life simple for users too. The KX-TDA system also makes it easy to accommodate other model Panasonic System Telephones, single line, fax machines or modems.

Multifunction LCD
Alphanumeric LCD providing simple key access to:
- Incoming caller's name and number (Caller ID[1] required)
- Call log – up to 100 incoming and 10 outgoing calls can be recalled and redialed (Caller ID[1] required)
- Alpha tagging of exchange lines
- Call duration
- Message waiting, absent messages feature set
- Calling extension name

Large Backlit LCD Display
- Up to 6-line display

Message Lamp
- Large message/ringer lamp—alerts you when voice mail messages are left.

Menu Screen Prompts
- System/personal speed dials/user selected functions
- Extension lists
- Feature access
- System guidance

Ringtones
- 20 ringtones and 10 melodies

Hands-Free Speakerphone
- Integrated speaker for hands-free operation

Flexibility
- 4-postion angle adjustment for more flexibility of location and use

Headset Jack
- Allows hands-free usage for PC or paperwork
- 2.5mm

KX-T7636 White Shown

Programmable Keys
24 keys with Tri-Color LEDs
12 Extra (with optional KX-T7603 12-key add-on module)

Navigation Key
- Fast and reliable operation
- Adjust handset, speaker and ringer volume
- Adjust LCD contrast
- Search through speed dial
- Access menu options

Each key can be individually programmed as:

CO Key
- Direct access to a CO line

Direct Stations Selection (DSS) Key
- One key access to Stations or Station groups

Auto-Dial Key
- 32 digits can be programmed per key for external calling

Features Access Key
- Simplified activation of system features

[1]Requires subscription to fee-based telephone company service.

Choose from a Wide Variety of System Telephones

The KX-TDA50 system is available with a full range of digital proprietary telephones and a DSS console. If 24 keys are not enough, a simple 12-key add-on module (KX-T7603) will provide the answer. It's suitable for the KX-T7636 and the KX-T7633. If you are looking for an even larger DSS console, the 60-key KX-T7640 is also available. All proprietary telephones in the range (including DSS console, 12-key add-on module and USB port options) are available in charcoal/black or white.

Models / Features	KX-T7636	KX-T7633	KX-T7630	KX-T7625	KX-T7640	KX-T7603
LCD	6-Line	3-Line	3-Line	No	No	No
Line Keys	24	24	24	24	60	12
Speakerphone	Yes	Yes	Yes	Yes	No	No
Headset Jack (2.5mm)	Yes	Yes	Yes	Yes	No	No
Backlit LCD	Yes	Yes	No	No	No	No
XDP	Yes	Yes	Yes	Yes	No	No
USB Interface*	Option	Option	No	No	No	No
12 Key Add-On Module	Option	Option	No	No	No	Yes
Navigator Key	Yes	Yes	Yes	Yes	No	No
Dual Color LEDs	Yes	Yes	Yes	Yes	Yes	Yes
Colors: White and Charcoal/Black	Yes	Yes	Yes	Yes	Yes	Yes

Panasonic has a range of headsets to help decrease discomfort and fatigue, for use with these telephones.

***USB option includes a free trial of P.C. Phone Lite Software.**

Creating a User Friendly Enviroment

Alphanumeric/LCD Display

By providing visual feedback, the user-friendly display makes it easy to handle calls and perform other tasks. You can use the display to view a variety of information such as, voice mail menu and soft key operation, or access the Digital Hybrid IP PBX system's many features. And, you can also make calls by following the visual prompts shown on the display.

The KX-T7636 proprietary phone features a 6-line, 24-character per line backlit LCD. This display allows you to list your personal call log, alphabetical phone list or table of speed dial numbers up on the screen and dial directly from it using one of the soft keys next to the display. You can even program system features via the user friendly LCD prompts.

Hands-Free Speakerphone

All of the KX-T7600 series telephones are equipped with a digital duplex speakerphone providing convenient, hands-free operation for making and receiving CO and intercom calls. When Auto Answer is on, intercom calls are automatically answered, allowing you to reply to the caller without touching the telephone.

Adjustable Angle

Offers a built-in, 4-stage angle adjustment for more flexibility of location and use.

Flexible CO Line Buttons

The Central Office line buttons of each telephone in the system can be individually programmed to suit the specific needs of

each of your employees. You can program CO line buttons for Direct Station Selection (DSS), Busy Lamp Field (BLF), automatic dialing or one-touch access to the feature used most often. But, the most important thing to remember is that each telephone can be custom tailored to each individual employee's needs to help achieve maximum efficiency.

Navigation Key
Panasonic 7600 Series display phones feature a navigator key for easy access and operation of both system and personal speed dial lists, as well as, speaker and handset volume controls.

Digital Extra Device Port (DXDP)
DXDP provides a cost-effective solution for adding a second telephone without running a second telephone line. You can connect KX-T7600 series telephones.

In addition, DXDP can be programmed with a different extension number and operate at the same time.

KX-TDA50 **DXDP Digital eXtra Device Port**

2 Pair
Telephone cable

KX-T7636
Extension 101

KX-T7636
Extension 201

DXDP allows you to connect up to two KX-T7600 Digital Telephones to the same system port, each can be assigned a different telephone number and operate independently at the same time.

System Features

SD Card
Flexibility is the key with any telephone system. The system software and local database information are stored permanently on the removable Panasonic SD card. If for some reason the system suffers a catastrophic failure, you can be assured that all the important information on your system can be easily loaded back into the system from the SD card. In addition, the SD card makes it a simple task to upgrade the system with new features.

(Optional SD required for multiple location networking.)

Programming and Maintenance
Panasonic TDA Certified Technicians have multiple password protected access points to program the system and perform maintenance. The system is equipped with a built-in RS232 and a USB port for onsite access and PC Programming. It can also be set up so it can be accessed remotely via an optional dial-up modem or through the Internet.

System Calling Features

Automatic Callback Busy (Camp On)
When making an intercom or CO call and the line is busy, you can execute a callback. When the busy line becomes free, the system will automatically alert the user that the busy extension has become free. Once that line is picked up, the system will automatically redial the line that was initially busy. This is a great convenience for those who wish to continue other projects instead of waiting around for a call to go through.

System Speed Dialing
The KX-TDA50 stores up to 1,000 system speed dial numbers (32 digits long for each) for all extension users. With the addition of the KX-TDA5105 Memory Expansion Card, system

speed dial capacity is increased to a total of 2,000 32-digit numbers. Both the user and the system administrator can program system speed dial numbers and names.

Additionally, some models in the KX-T7600 series, such as the KX-T7636 and the KX-T7633 telephones, allow you to scroll through the speed dial list, and simply hit the speakerphone key to dial the number. This feature can be used for both system and personal phone numbers.

Account Codes
Account codes can help manage your telephone expenses by identifying incoming and outgoing external calls for accounting and billing purposes. The system can be programmed to force the use of an account code or not.

The account code is appended to the Station Message Detail Recording (SMDR), which is very useful for billing back clients, or to simply keep a record of the time spent on the telephone for a specific project.

Direct Inward System Access (DISA)

The KX-TDA50 allows an outside caller to access specific system features without operator assistance, as if the caller was using an extension in the system. The outside caller can have direct access to the following features: single-digit access to extensions, outside party calling, intercom calling to an extension, modem (for remote system administration), external paging (for TAFAS) and extension group. Additionally, callers can be required to dial a security code to access extensions or the system's outside lines.

With the optional KX-TDA5191 2-Channel Message Card, DISA also offers a built-in Auto Attendant. With the Auto Attendant you can record a preprogrammed message for incoming calls. This message would direct callers to press a certain number for the extension they wish to reach. By doing so, the Auto Attendant can route callers to their desired location through answering a few preprogrammed questions. This will save time for both the caller and those who would otherwise have to direct call traffic.

Call Forwarding

There are four types of call forwarding – all calls, busy, no answer and busy/no answer. With these four options your calls can be forwarded whenever and however you like. And, all four options can be established by dialing a code or programming a feature key to forward your calls to a specific destination. You can also forward group calls as well as, internal and external calls that can be forwarded to an internal extension or an external telephone number. Each call can be forwarded up to four times.

Incoming intercom and transferred calls to your extension can easily be forwarded to you outside the office. You can now forward your calls to your cell phone, another location, or even your home. Calls can reach you almost anywhere in the world, 24 hours a day, 7 days a week. Another great feature is "follow-me" programming, which allows you to remotely set Call Forwarding from another phone within your organization, so calls to your extension will reach you while you roam.

Conferencing

The KX-TDA50 system allows the user to have multiple conference calls from 3-party up to 8-party calls at the same time. This feature can prove to be quite beneficial for those who do a lot of conference calling within the same company.

Caller ID/Call Logging

Caller ID displays the incoming caller's phone number, or name and number (if provided by the local phone company), when used with a Panasonic system display phone. Calls that are answered or not answered that are directed to a group or an individual extension can be logged, and the total calls that can be logged are assignable through system programming on a per extension basis. Logged calls can be called back by going off-hook while viewing the display and pushing the redial key. There are also up to 1000 programmable entries of name and number for Caller ID service that can be administered by either the user or the system programmer.

Caller ID information can be modified. Generally, when a call comes up on the Caller ID screen, it is listed with the area code. However, when you want to redial that number you may not need to dial the area code and therefore would want to strip off the area code from the Caller ID log. You can program personal bins for the logged information of each caller and then set preferences for how you would like to call that person back. For example, someone may always call you from their cell phone, but prefer that you return their call on their home phone. When the Caller ID information is logged for that person you can direct it to dial their home phone number every time it identifies their cell phone number.

IP Camera Compatibility

For added security and monitoring of your business when you're not in the office, Panasonic offers a wide range of Network Cameras. You can check the images on your PC, or on your compatible cell phone or PDA while you're on the go using the built in web page. The cameras are easy to use, and all you need to set one up in your business is a broadband connection.

Most of the Panasonic network cameras are equipped with built in I/O connectors for sensors, microphones, speakers

and external device control making it easy to integrate with the KX-TDA50. For example, by placing a camera at the entrance of your business and connecting it to the Panasonic KX-T7775 door phone, you can see who's at the front door when the doorphone button is pressed. You can even open the door using the camera when it's connected to an electric door strike.

TV monitor receives image

BB-HCM371A camera

BL-WV10A TV adaptor

Voice Processing

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 our high level of integration between the KX-TVA Voice Processing System and our KX-TDA50 system, you can enjoy features like Voice Mail Menu that allows you to access and manage your voice mailbox using the LCD display on your telephone and several other features that are listed below. With all these choices its easy to custom design a system that is right for you.

- **Auto Configuration**
- **Caller ID Call Routing**
- **Caller ID Screening**
- **Caller ID Name Announce**
- **Intercom Paging**
- **Trunk Service**
- **Automatic Login**
- **Live Call Screening**

- **Two-way Record**
- **Two-way Transfer**
- **Personal Greeting for Caller ID**
- **Remote Call Forwarding Set***
- **Timmed Reminder Setting***
- **Time Synchronization***

*DPT Intergration only

KX-TDA50 Digital Hybrid IP-PBX System Feature List

System Features	System Features
Absent Message Capability	Hold
Account Code Entry	Hold Recall/Hold Reminder
Automated Attendant (with DISA OGM)	Industry Standard Telephone Capability
Automatic CO Hunting	Internal Paging (All Call Paging)
B.G.M. (Background Music) Jack	Internal Paging (Zone Paging)
Call Forwarding	Last Number Redial
Call Hunting (Terminal or Circular)	Limited Call Duration
Call Log	Live Call Screening (DPITS Only)
Call Parking	Live Call Screening, Remote (DPITS Only)
Call Park Retrieve	Login/Logout (Hunt, Ring, UCD)
Call Pick-Up	Login/Logout
Call Transfer/Transfer Recall	Lunch/Break Mode
Call Waiting	Memory Back-Up
Caller ID[1], to SLT	Message Waiting - Proprietary Phones
Caller ID[1], Call Logging	Military Time Display
Caller ID[1], Callback	M.O.H. (Music On Hold)
Caller ID[1], Call Waiting	Multi-Cell Wireless
Caller ID[1], Date and Time Adjust	Multi-Lingual Displays (5)
Caller ID[1] (Name and/or Number DPT, APT, SLT)	Multiple Voice Mail Lamps
Class of Service 64	Off-Hook Tone Signaling
CO Limited Duration Timer	Off-Hook Monitoring **
CO Line Names	Off-Hook Call Announce (OHCA)*
CO Line Status (Two Color LED)	On-Site Programming Diagnostics
Conference Calling (8-Party)	Operator Call
Data Line Security (for Fax or Modem)	Power Failure Transfer
Data and Time Display	Pre-Selection (Central Office or Intercom)
Delayed Ringing	Remote Programming and Diagnostics Modem
Digital Extra Device Port DXDP	Remote Station Lock Control
D.I.S.A. (Direct Inward System Access)	Ring Groups
D.I.S.A. Single Digit Access	Ringing Line Preference
Distinctive Ring Tone (CO, Intercom)	Saved Number Redial
Distinctive Ring Tone (Door Phones)	Secret Dialing
D.N.D. (Do Not Disturb)	Seven Day ARS Time Tables
Do Not Disturb Override	S.M.D.R. (Station Message Detail Recording)
Door Intercoms/Door Opener Contacts 4/4	Station Name Display
DSS/BLF Consoles	Station-to-Station Messaging
Dual Port Usage (Parallel SLT Station)	Station Speed Dial
Duration Time of Call Display	System Speed Dial Numbers
Electronic Station Lock	T.A.F.A.S. (Trunk Answer From Any Station)
Emergency Call Number Programming	CSTA TAPI Ver. 2.1 Compliant
Extension Name on Display when Idle	Timed Reminder, Remote
Exclusive Hold	Toll Restriction
Executive Override	Toll Restriction Override
Executive Override Deny	Tone/Pulse Conversation
External Modem Support	Tone/Pulse Dialing (By CO Line)
External Paging Ports	Transfer (Screened/Unscreened)
Fax Detection	Trunk Groups
Flexible CO Keys (DSS/BLF, One-Touch Dial)	Two-Way Record (DPITS)
Flexible DSS Keys (One-Touch, Feature Access)	Two-Way Transfer (DPITS)
Flexible Key Assignments	Unattended Conference Call
Flexible Line Assignment	Uniform Call Distribution without OGM
Flexible Night Service/Programmable/Manual)	Uniform Call Distribution with OGM
Flexible Ring Assignment (Day/Night)	Voice Mail Integration (Inband)
Flexible Ring Assignment (Lunch)	Voice Mail Integration (DPITS)
Flexible Station Numbering	Voice Mail Unit Capacity 1
Hands-Free Answer Back Intercom	VOIP (Optional IP Gateway Card)
Handset/Headset-Display Phones	

1-Requires subscription to fee-based telephone company service.
* Available on KX-T7636, 7633, 7630, 7625, 7436 and 7235
** Available on KX-T7431, 7433, 7436, 7636, 7633, and 7625

KX-TDA50 Maximum Capacities

Trunk Ports	8
Extension Ports	24
Single Line Telephones	24
Digital Proprietary Telephones KX-T7600, 7400, 7200 Series	24/48 DXDP
Analog Proprietary Telephones and DSS Console KX-T7700 and 7000 Series	24
Cell Station (KX-T0141)	8
Voice Processing System	4 Ports (1 system)
Wireless Telephones (KX-TD7680 and KX-TD7690)	28
Doorphones	4

KX-TDA50 System Specifications

Switching	Non Blocking
Power Voltage	AC 100V ~ 240V AC Adapter
Memory Back-Up Duration	7 Years
Dialing	
CO Trunk	DP (10pps, 20pps), DTMF
Extension	DP (10pps, 20pps), DTMF
Connectors	
CO Line	RJ11 (2 wire) x each CO Port
Station	RJ11 (4 wire) x each Extension Port
Paging Output	1 Jack
Ring Frequency	20/25 Hz (Selectable)
Central Office Loop Limit	1600 ohms max.
Operating Environment	
Temperature	0˚ - 40˚C, 32˚ - 104˚F
Humidity	10% - 90%
Conference Call Trunk	3-Party x 10 Conference Calls
	8-Party x 4 Conference Calls
Music On Hold (MOH)	1 Port Selectable Tone/External Music Source (Level control: -6dB ~ + 6dB per 3dB)
Internal Paging	Level control: -6dB ~ + 3dB per 3dB
External Paging	1 Port (Level control: -15dB ~ + 6dB per 3dB)
Interface Port	USB: 1 Port RS232C: 1 Port
Dimensions (H x W x D)	14.8" x 10.8" x 4.6" (275 x 376 x 117 mm)
Weight (when fully configured)	7.7 Lbs. (3.5 kg)

Panasonic

KX-TDA
Certified
Dealer

CSD

Certification Program

The KX-TDA50 and associated equipment are Panasonic Consumer Electronics Company Certified Dealer models. Please consult with your dealer/installer to determine if they have successfully completed the Panasonic certification program.

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