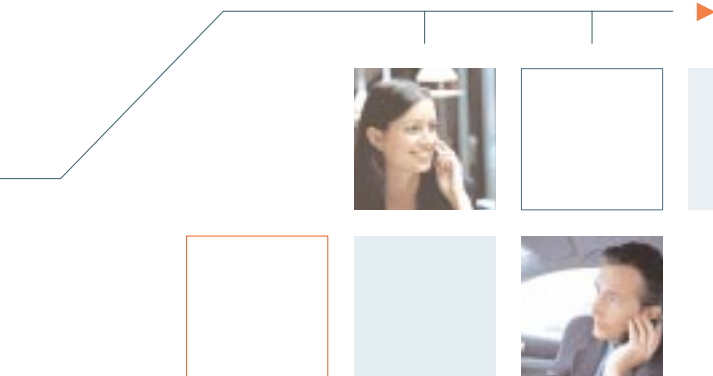# Panasonic

2 0 0 3 – 2 0 0 4

Business Telephone Systems

Intelligent, versatile communication solutions

Panasonic made its first impact on the telephone systems industry in 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 1993 Panasonic rocked the industry again by introducing the world's first digital "super-hybrid" telephone systems (KX-TD816 and KX-TD1232). Now each extension on the system could support a range of new digital telephones in addition to analogue devices.

The company followed that up in 1995 by releasing the first Digital Voice-Processing System (KX-TVP100) – a stand-alone system that supports 64 mailboxes and 18 hours of total recording time.

Since then 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 KX-TDA series of Hybrid IP PBX's, which are being released in 2003 to further support IP telephony while maintaining easy operation.

Reliability

Every Panasonic factory follows rigorous quality-control practices, and every product must pass a comprehensive set of tests before leaving the factory. Panasonic business telephone systems are manufactured in Japan to the highest possible standards at a factory that has earned ISO 9001 certification for design, development and manufacture of telecommunications equipment. This is your assurance that every Panasonic PBX system offers outstanding quality and reliability.

Maintenance

Ease of maintenance is important in telephone systems, because a company's operations can be severely affected when it takes too long to troubleshoot a problem or change system settings. Panasonic systems are designed for quick, efficient maintenance. Some customisations can be performed by users through the system telephone, and dealers can perform maintenance easily with Windows-based PC programming software.

Service

All Panasonic telephone systems are fully supported by the Panasonic Dealer Network. The appointed dealer will help you find the right system, install it with minimal disruption to your operations, and provide support in the years to come.

For the Future...

Future developments in Panasonic unique features will continue to set Panasonic apart from competitors and lead to more world's-firsts in the industry. With our new and emerging digital technologies, Panasonic will continue to be your gateway to the future.

New PBX Systems

- KX-TDA200
- KX-TDA100
- KX-TDA30

Panasonic's new KX-TDA30/100/200 Hybrid IP PBX is a family of network-oriented products. They are designed to support IP telephony, first- and third-party computer telephony, and networking, with ease of use a central precept of the entire product line.

System hardware and software were developed by Panasonic to be both highly reliable and easily extensible through a common architecture, independent of product type and number of ports.

A core concept behind the new product line is the idea of "Friendly Systems for Everyone." This in-house ease-of-use initiative has prompted an increased focus on incorporating user-friendly features, in addition to integrating the latest technologies. Drawing on its extensive experience in the field, Panasonic has met the goals of this initiative by enabling end-users to feel fully and immediately at ease with virtually every aspect of the new products.

The new product line demonstrates Panasonic's commitment to the realisation of this mission through time- and field-tested functionalities. These include : backward compatibility, universal slots, CTI application interoperability via standard published interfaces, and remote maintenance and software upgrade capabilities.

Hybrid IP PBX Systems
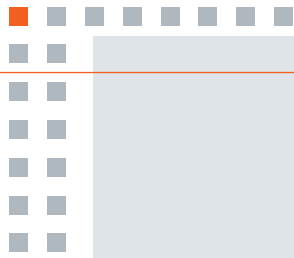
Makes Communications Easy

- Stylish, Easy to use, and Efficient digital telephones
- A USB terminal that provides easy plug-n-play connection to a PC

Efficiency That You Will Appreciate

- Multi-cell wireless integration
- TAPI 2 CTI interface (TAPI and CSTA)
- PC-phone / PC-console
- Advanced call centre function
- ISDN capability (BRI/PRI)
- Integration with voice processing system

Cost-Cutting Performance

- Voice over Internet Protocol (VoIP)
- QSIG digital networking allows basic call handling (outgoing and incoming),
  closed numbering routing, and CLIP/COLP/CLIR/COLR
- Automatic Route Selection (ARS) / Least Cost Routing (LCR)
- Reliable networking via T1/E1, E&M

Reliability

- Easy maintenance

KX-TDA30
8 or 12 CO lines /
28 Extensions (Max. 36 ports)

KX-TDA100
64 CO lines /
64 Extensions (Max. 108 ports)

KX-TDA200
128 CO lines and
128 Extensions (Max.216 ports)

▶ **KX-T7636 with KX-T7603**
Display Unit
  - 6-Line Back-lit Display
  - 24 Programmable CO Keys
  - Speakerphone
  - Optional 12 CO Keys and USB port
  - eXtra Device Port (XDP) and Digital XDP*

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)

Headset Jack for Hands-Free Convenience

Full-duplex Speakerphone

▶ **KX-T7633**
Display Unit
  - 3 –Line Back-lit Display
  - 24 Programmable CO Keys
  - Speakerphone
  - Optional 12 CO Keys
    and USB port
  - eXtra Device Port (XDP)
    and Digital XDP*

▶ **KX-T7630**
Display Unit
  - 3 – Line Display
  - 24 Programmable CO Keys
  - Speakerphone
  - eXtra Device Port (XDP)
    and Digital XDP*

Multi-language Capability
The Hybrid IP PBX accommodates up to five different languages, for use in areas where more than one language is commonly spoken. The language can be set at the PBX for a specific telephone extension, to meet the needs of the person who uses that extension.

Message/Ringer Lamp (Red/Green)
The large, easy-to-see lamp illuminates to indicate when a call comes in, so you can tell when the telephone is ringing even from a distance. The colour of the lamp indicates the status -- green for an internal extension line, red for an outside line, and red to indicate that a caller has left a message.

eXtra Device Port (XDP) and Digital XDP*
Use the XDP to add an analogue phone, cordless phone, or other single-line device to your system, without the cost of an additional line. This lets you send a fax while talking to a customer. Or, by connecting a modem to the XDP, you can download data from your PC or access the Internet while talking. The Digital XDP allows you to increase the number of digital telephones without additional cards. It lets you put functional digital phones in the hands of more of your staff to boost overall office productivity.

▶ **KX-T7625**
Speakerphone Unit
  - 24 Programmable CO Keys
  - Speakerphone
  - eXtra Device Port (XDP)
    and Digital XDP*

▶ **KX-T7640**
Digital DSS Console
  - 60 Direct Stations Selection
    (DSS) keys

▶ **KX-T7665**
Display Unit
  - 1 –Line Display
  - 8 Programmable CO Keys
  - Message / Ringer Lamp
  - Speakerphone
  - Digital XDP*

* Digital XDP is available from Ver.1.1.

Digital Telephone Systems

A digital telephone system that's perfectly suited
to your office environments

Panasonic's powerful, sophisticated digital telephone systems are designed to stay ahead of your office's evolving needs. Our PBX systems, KX-TD816, TD1232 and TD500 are expanding to deliver a comprehensive end-to-end solutions package with features such as call centre and hotel functions, multi-functional messaging, networking, and DECT mobility*. Panasonic's super-hybrid technology simultaneously accommodates proprietary digital and analogue telephones, conventional single-line fax machines, modems, cordlessphones, and answering machines.

 * Not provided on the KX-TD500

KX-TD816
8 CO lines /
32 Extensions

KX-TD1232
24 CO lines /
128 Extensions

KX-TD500
192 CO lines /
448 Extensions
 (Max.512 Ports)

▶ **The intelligent communications solutions
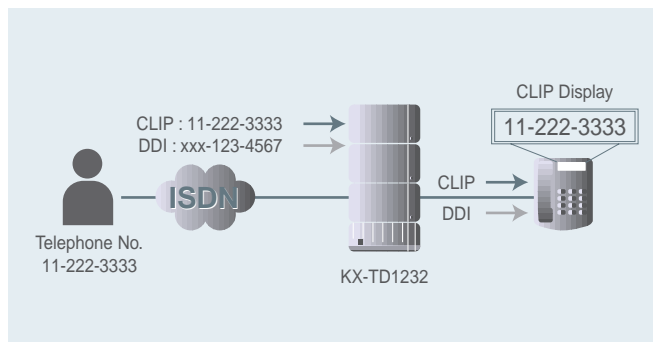for mid-sized offices and small call centres**

- The super-hybrid KX-TD816 and
  KX-TD1232 offer all the advantages of
  digital systems plus compatibility with
  analogue proprietary telephones
- TAPI 2 CTI Interface
- Multi-cell DECT integration
- ISDN Capability (BRI / PRI)
- Integration with voice-processing system
- Built-in hotel features: check in / check out,
  wake up calls, room status, and remote
  station lock
- UCD with messaging capability with agent
  log-in/log-out (Max.4 messages, total up to
  64 seconds)
- Dual Mode Caller ID (FSK and DTMF)

▶ **The expandable, adaptable system for mid-
sized to large businesses**

- Super-hybrid multi-device technology
- TAPI 2 CTI Interface
- QSIG digital networking allows basic call
  handling (outgoing and incoming), closed
  numbering routing, and CLIP/COLP /,
  CLIR/COLR
- ISDN Capability (BRI / PRI)
- Integration with voice-processing system
- Advanced CTI features, including name
  dialling and database pop-up
- Built-in hotel features: check in/check out,
  wake up calls, room status, and remote
  station lock
- UCD with messaging capability with agent
  log-in / log-out (Max.8 messages, 30
  seconds each)

ISDN Capability

The KX-TD816, TD1232 and KX-TD500 allow users to take full advantage of the cost savings and network services offered by ISDN. By displaying incoming telephone numbers, Caller ID (CLIP) delivers both quicker response time and improved service for customers. Direct Dialling In (DDI) assigns a telephone number to each extension that gets your customers directly to the service they want.

CLIP : 11-222-3333
DDI : xxx-123-4567

CLIP Display
11-222-3333

CLIP
DDI

ISDN

Telephone No.
11-222-3333

KX-TD1232

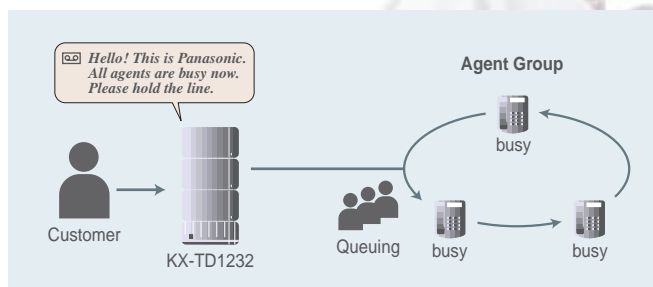## Cost-Saving Digital Trunk Line-E1 / PRI

The KX-TD1232 and KX-TD500 support E1 and ISDN PRI (Primary Rate Interface), for a maximum of 30 voice channels. This provides cost-effective telephone lines for corporate customers, because the monthly subscription charge per channel of E1/ISDN PRI is less than that for analogue lines.

Basic Small Call Centre – Built-in UCD (Uniform Call Distribution) with Message*

It would be wrong to believe that call centres are limited to companies with very active agents answering calls all day. On the contrary, any organization with two or more persons assigned to handle inbound calls is, in fact, a call centre. This feature handles many incoming calls quickly and efficiently by distributing them to a group of extensions. If all stations in the group are busy, the system serves as a receptionist, playing a message to the caller. This is useful both for large offices that receive a number of calls at once and for smaller offices where there is only one person to answer incoming calls. If you require advanced call centre functions such as dynamic call treatment table management, agent management, real time monitoring, and call centre performance analysis, Panasonic offers Call Centre Management Software.

Hello! This is Panasonic. All agents are busy now. Please hold the line.

Agent Group

busy

Customer

KX-TD1232

Queuing

busy

busy

* An optional card is required.

Telephone systems that put
more communication power in your hands

Panasonic business telephone systems
put you in command of PBX's
many advanced features.

► KX-T7436
Enhanced Display Unit
- 6 lines x 24 characters LCD
- 24 Programmable CO Keys
- Off Hook Call
  Announcement (OHCA)
- Whisper OHCA
- Speakerphone
- eXtra Device port

JOG-DIAL

The JOG-DIAL on the KX-T7433/KX-T7436/KX-T7533/KX-T7536 gives you quick access to the Call Directory (using alphanumeric searching) and to system features (using the display menu). The JOG-DIAL also makes it easy to adjust the speaker, handset, and ringer volumes and contrast.

Alphanumeric Display

Simplifies call handling and other operations. You can view a host of information (list follows), access system features, or call directly via visual prompts.
- The incoming caller's name and number (ISDN, Caller ID)
- A record of incoming and outgoing calls (Call Log)
- The calling extension's number and name
- System/personal speed dialling
- Extension lists
- Menu of system features
- Call duration (ISDN)
- Message waiting, absent messages, feature settings
- Date and time

► KX-T7433
Display Unit
- 3 lines x 16 characters LCD
- 24 Programmable CO Keys
- Whisper OHCA
- Speakerphone
- eXtra Device port

► KX-T7425
Speakerphone Unit
- 24 Programmable CO Keys
- Whisper OHCA
- eXtra Device port

► KX-T7450
Monitor Unit
- 12 Programmable CO Keys
- Whisper OHCA
- eXtra Device port

eXtra Device Port (XDP)

The XDP lets you add a single-line device (such as an analogue or cordless phone) at no additional cost. You can talk on the phone while faxing a document, talk while downloading data from your PC, or connect a modem to the XDP and access the Internet while talking or faxing.

► KX-T7440
DSS Console
- 66 Direct Stations Selection (DSS) keys
- 66 Busy Lamp Field (BLF) keys

Programmable Keys with Dual-Colour LED (Red/Green)

You can set the programmable keys to provide instant, one-touch operation. A Busy Lamp Field (BLF) shows which extensions are in use. Enjoy greater call-handling efficiency by assigning a function to each key, such as Direct Station Selection (DSS), Day/Night mode, Log in/Log out, or voice-mail transfer. Each key has a dual-colour LED to show information such as line status, extension status, or feature on/off.

► KX-T7441
DSS Console
- 48 Direct Station Selection (DSS) keys
- 48 Busy Lamp Field (BLF) keys
- Answer / Release key

▶ **KX-T7536**
Enhanced Display Unit
- 6 lines x 24 characters LCD
- 12 Programmable CO Keys*
- Off Hook Call Announcement (OHCA)
- Speakerphone
- eXtra Device port

▶ **KX-T7545**
12 CO Add-on Key Module

▶ **KX-T7541**
DSS Console
- 48 Direct Station Selection (DSS) keys
- 48 Busy Lamp Field (BLF) keys
- Answer / Release key

▶ **KX-T7533**
Display Unit
- 3 lines x 16 characters LCD
- 12 Programmable CO Keys*
- Whisper OHCA
- Speakerphone
- eXtra Device port

▶ **KX-T7565**
Display Unit
- 1 line x 16 characters LCD
- 8 Programmable CO Keys
- Whisper OHCA
- Speakerphone

▶ **KX-T7520**
Speakerphone Unit
- 12 Programmable CO Keys*
- Whisper OHCA
- eXtra Device port

▶ **KX-T7560**
Monitor Unit
- 8 Programmable CO Keys
- Whisper OHCA
- Monitor

▶ **KX-T7550**
Monitor Unit
- 12 Programmable CO Keys*
- Whisper OHCA
- eXtra Device port

▶ **KX-T7710**
Proprietary Telephone
- Message / Ringer Lamp
- One-touch Button Panel
- Data Port

▶ **KX-T7540**
DSS Console
- 66 Direct Stations Selection (DSS) keys
- 66 Busy Lamp Field (BLF) keys

▶ **KX-T7101**
Single Line Telephone
- Message Lamp
- One-touch Speed Dialler
- Data Port

* The number of the keys can be added up to 24 with an Add-on Key Module (KX-T7545)

Analogue Telephone Systems

Panasonic's analogue telephone system has taken telephone systems for small to mid-sized companies a giant leap forward, offering features seldom available in this category. Its easy upgradability reduces the cost of expansion, Caller ID increases your efficiency, and voice-processing integration improves productivity. (Not available for KX-T206)

KX-T206
2 CO lines /
6 Extensions

KX-TA308
6 CO lines /
24 Extensions

KX-TA616
6 CO lines /
24 Extensions

▶ - 2 CO lines and 6 extensions
- Easy installation
- Automatic fax transfer
- Direct Inward System Access (DISA)
- Built-in doorphone interface
- Delayed ringing
- Flexible night service
- Programmable call restriction

▶ **The "Advanced Hybrid System" is ideal for small businesses or home offices that need sophisticated communication features and extra flexibility**

- Expandable from 3 CO lines and 8 extensions to 6 CO lines and 24 extensions
- Direct Inward System Access (DISA) with Message helps callers navigate directly to the intended party
- Uniform Call Distribution (UCD) with Message improves call-handling efficiency
- Caller ID
- Integration with voice-processing system
- Various call forwarding features – never again miss an important call
- Calling activity reports (Station Message Detail Recording), account code entry, and toll restriction help you manage telephone costs more effectively
- Conveniences include doorphone/door opener interface (up to 4 doorphones and 4 door openers can be connected), 5-party conferencing, day/night/lunch mode
- Built-in battery interface for protection in the event of power failure

Flexible and Simple Expansion

By adding optional cards, you can expand the system from 3 COs / 8 extensions to 6 COs / 24 extensions to meet your changing needs. No additional programming or costly rewiring is required.
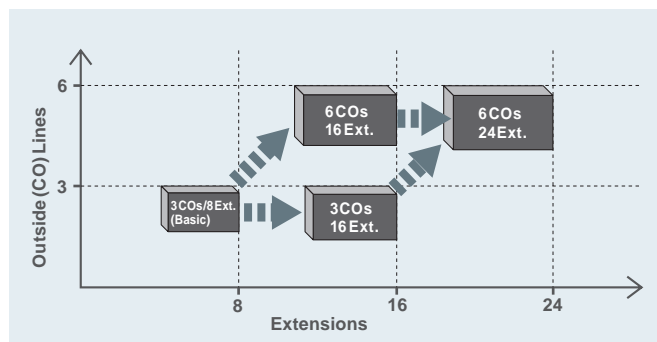
Caller ID

The system is compatible with Caller ID, which allows a user to see the caller's information on Analogue Proprietary Telephones. Proprietary display telephones can be used to access the Caller ID log for the most recent calls (Call Log).

* Please contact your dealer or phone company to confirm if the Caller ID service is available in your area.
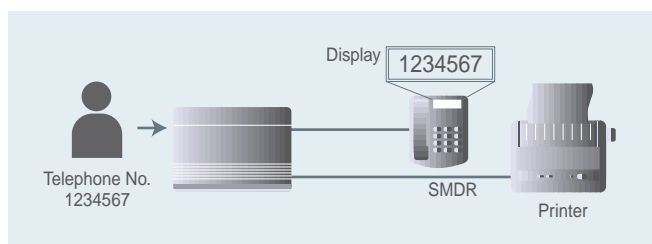
Voice Mail Integration with KX-TVP50

An incoming call can be answered professionally by the automated attendant and routed to the desired extension easily. The integration with Caller ID* service provides you the useful call handling features such as personal greeting for Caller ID and Caller ID Call Routing.

* Please contact your dealer or phone company to confirm if the Caller ID service is available in your area.

Battery Backup Interface (Built-In)

The system is equipped with a built-in battery interface which provides full uninterrupted system operation in the event of a power failure.
An optional connection cable is required.
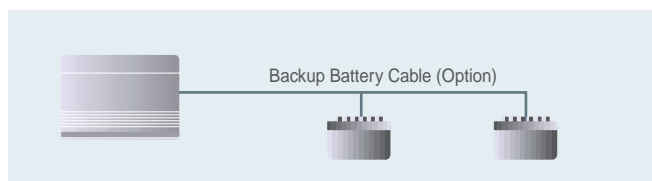
Smart-Looking Telephones that Answer the Needs of Today's Energetic Office

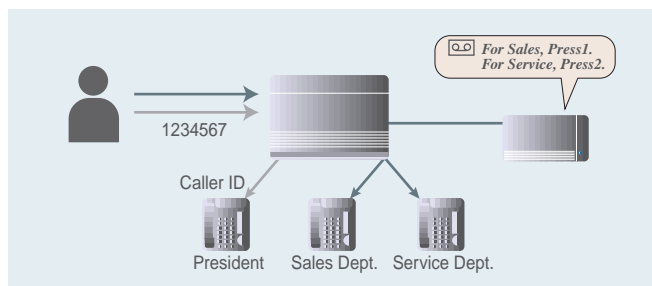Panasonic's new telephones combine a fresh, energetic design with functions that answer the call for convenience and efficiency.

▶ **KX-T7730**
Display Unit
- 1 line x 16 characters LCD
- 12 Programmable CO Keys
- Navigator Key
- Speakerphone
- Headset Compatible

High-Quality Design

Easy-to-grip handset, solid-touch keys, and a smart matte finish.

Incoming Call / Message Lamp

This large, easy-to-see lamp announces incoming calls or messages, so you'll always know whose telephone is ringing – even from a distance.

Navigator Key (KX-T7730)

For quick adjustment of the volume and display and contrast.

Tilt-Angle Adjustment

The telephone adjusts to either of two angles for easier use and a smaller, space-saving footprint.

▶ **KX-T7720**
Speakerphone Unit
- 12 Programmable CO Keys

▶ **KX-T7750**
Monitor Unit
- 12 Programmable CO Keys

▶ **KX-T7740**
DSS Console
- 32 Direct Station Selection (DSS) keys
- 32 Busy Lamp Field (BLF) keys

			T206	TA308	TA616	TD816	TD1232	TD500	TVP50	TVP200	TVP300
Telephones	KX-T7750	Proprietary Telephone with Monitor (12 CO keys)	●	●	●	●	●	●			
	KX-T7720	Proprietary Telephone with Speakerphone (12 CO keys)	●	●	●	●	●	●			
	KX-T7730	Proprietary Telephone with Display and Speakerphone (12 CO keys)	●	●	●	●	●	●			
	KX-T7740	DSS Console (32 DSS / BLF keys, 16 PF keys)		●	●	●	●	●			
	KX-T7450	Digital Proprietary Telephone with Monitor (12 CO keys)				●	●	●			
	KX-T7425	Digital Proprietary Telephone with Speakerphone (24 CO keys)				●	●	●			
	KX-T7433	Digital Proprietary Telephone with Display and Speakerphone (24 CO keys)				●	●	●			
	KX-T7436	Digital Proprietary Telephone with Large Display (24 CO keys)				●	●	●			
	KX-T7440	Digital DSS Console (66 DSS / BLF keys)				●	●	●			
	KX-T7441	Digital DSS Console (48 DSS / BLF keys, Answer / Release Key)				●	●	●			
	KX-T7550	Digital Proprietary Telephone with Monitor (12 CO keys)*1				●	●	●			
	KX-T7520	Digital Proprietary Telephone with Speakerphone (12 CO keys)*1				●	●	●			
	KX-T7533	Digital Proprietary Telephone with Display and Speakerphone (12 CO keys)*1				●	●	●			
	KX-T7536	Digital Proprietary Telephone with Large Display (12 CO keys)*1				●	●	●			
	KX-T7540	Digital DSS Console (66 DSS / BLF keys)				●	●	●			
	KX-T7541	Digital DSS Console (48 DSS / BLF keys, Answer / Release Key)				●	●	●			
	KX-T7545	12 CO Add-on Key Module				●	●	●			
	KX-T7560	Digital Proprietary Telephone with Monitor (8 CO keys)				●	●	●			
	KX-T7565	Digital Proprietary Telephone with Display and Speakerphone (8 CO keys)				●	●	●			
	KX-T7710	Proprietary Telephone with Message / Ringer Lamp, One-Touch Dialler, Data Port	●	●	●	●	●	●			
	KX-T7101	SLT with Message Lamp, One-Touch Dialler, Data Port	●	●	●	●	●	●			
	KX-T7310	SLT with Message / Ringing Lamp, Dialer Set	●	●	●	●	●	●			
	KX-T7315	SLT with Message / Ringing Lamp, Speakerphone Set	●	●	●	●	●	●			
Others	KX-T7090	Headset (works with any proprietary telephone)	●	●	●	●	●	●			
	KX-T30865	Doorphone	●	●	●	●	●	●			
	KX-A46	Battery Adaptor				●	●	●			
	KX-A46D	Battery Adaptor (with battery charger)				●	●	●			
	KX-A216	Backup Battery				●					
	KX-A227	Backup Battery Cable		●	●						
	KX-A291	Hotel PMS Interface (Up to 64 rooms)						●			
	KX-A292	Hotel PMS Interface (Up to 128 rooms)						●			
	KX-A293	Hotel PMS Interface (Up to 448 rooms)						●			
	KX-A296	Call Centre Management Software for KX-TD816/1232 (Max. 16 agents)				●	●				
	KX-A297	Call Centre Management Software for KX-TD500 (Max. 24 agents)						●			
	KX-T20691	OGM (Outgoing Message) and Fax Transfer Card with DISA Function	●								
TA308/616	KX-TA30877	Expansion Card (3 COs / 8 Extensions)		●							
	KX-TA30874	SLT Expansion Card (8 Extensions)		●	●						
	KX-TA30860	Doorphone / Door Opener Interface Card (Supports 4 doorphones and 4 door openers)		●	●						
	KX-TA30889	Pay Tone Card		●	●						
	KX-TA30891	OGM (Outgoing Message) and Fax Detection Card		●	●						
	KX-TA30893	Caller ID Card		●	●						
TD816/1232	KX-TD160	Doorphone / Door Opener Interface Card (Supports 2 doorphones and 2 door openers)				●	●				
	KX-TD170	Extension Expansion Unit (8 super hybrid)				●	●				
	KX-TD174	Extension Expansion Unit (16 SLT)				●	●				
	KX-TD180	CO Line Expansion Unit (4-circuit)				●	●				
	KX-TD184	E&M Trunk Unit (4-circuit)				●	●				
	KX-TD185	Direct Inward Dialling (DID) Card (4-circuit)				●	●				
	KX-TD188	E1 Card (30 channels)					●				
	KX-TD189	Pay Tone Card for 4 CO lines (Daughter card for CO interface)				●	●				
	KX-TD190	DISA Unit (2 channels) (Option slot for KX-TD197 is available)				●					
	KX-TD191	DISA Card (2 channels)					●				
	KX-TD192	System Inter Connection (SIC) Card					●				
	KX-TD193	Caller ID Card for 4 CO lines (Daughter card for CO interface)				●	●				
	KX-TD194	SLT Message Waiting Lamp Adaptor Unit (Supports 16 extensions)				●	●				
	KX-TD196	Remote Card (2,400 bps)					●				
	KX-TD197	Remote Card (9,600 bps) (KX-TD190 is required)				●	●				
	KX-TD198	Remote Unit (9,600 bps) (Option slot for KX-TD199 is available)				●					
	KX-TD199	DISA Card (2 channels) (KX-TD198 is required)				●					
	KX-TD280	2 Basic Rate Interface (BRI) ISDN Expansion Unit				●	●				
	KX-TD286	6 Basic Rate Interface (BRI) ISDN Expansion Unit				●	●				
	KX-TD290	Primary Rate Interface (PRI) ISDN Expansion Unit					●				
DECT	KX-TD7590	DECT Portable Station (PS) (Battery charger KX-A278 is required)				●	●				
	KX-TD7580	DECT Portable Station (PS) (Battery charger is included)				●	●				
	KX-TD142	Cell (Base) Station (4 simultaneous speech paths)				●	●				
	KX-TD144	Cell Station Interface (4 Cell Stations)				●	●				
	KX-TD146	Cell Station Interface (6 Cell Stations)				●	●				
	KX-A278	DECT Battery Charger for KX-TD7590				●	●				
TVP	KX-TVP102	2-ports Expansion Card (SLT/DPT Interface Card)								●	●
	KX-TVP204	4-ports Expansion Card (DPT Interface Card)								●	●
	KX-TVP52	Expansion Card for 2 hours Additional Recording Time							●		
	KX-TVP54	Expansion Card for 4 hours Additional Recording Time							●		
TD500	KX-TD520	Expansion Shelf						●			
	KX-TD50104	Additional Conference Trunk Card (64 Conference Trunk)						●			
	KX-TD50105	OHCA Path Expansion Card (This card is required for voice mail integration)						●			
	KX-TD50170	Digital Hybrid Telephone Line Circuit (DHLC) Card (8 ports SLT or APT or DPT)						●			
	KX-TD50172	Digital Proprietary Telephone Line Circuit (DLC) Card (16 ports DPT)						●			
	KX-TD50175	Enlarged Single Line Telephone circuit with Message Waiting (ESLC) Card (16 ports SLT)						●			
	KX-TD50197	Enhanced Remote Circuit (ERMT) Card (33.6 Kbps)						●			
	KX-TD50180	Enhanced Loop Start Central Office Trunk (ELCOT) Card (8-circuit)						●			
	KX-TD50288	8 BRI-ISDN Card						●			
	KX-TD50290	1 PRI-ISDN Card (Occupies 2 slots)						●			
	KX-TD50189	Pay Tone Card for 4 CO lines (Daughter card for KX-TD50180)						●			
	KX-TD50300	PC Console						●			
	KX-TD193	Caller ID Card for 4 CO lines (Daughter card for KX-TD50180)						●			
	KX-T96136	OHCA Daughter Board for HLC/PLC Card (Supports 2 proprietary telephones)						●			
	KX-T96161	Doorphone / Door Opener Interface Card (Supports 4 doorphones and 4 door openers)						●			
	KX-T96170	Hybrid Telephone Line Circuit(HLC) Card (8-circuit)						●			
	KX-T96172	Proprietary Telephone Line Circuit (PLC) Card (8-circuit)						●			
	KX-T96174	Single Line Telephone Circuit (SLC) Card (8-circuit)						●			
	KX-T96175	Single Line Telephone Circuit with Message Waiting (SLC-M) Card (8-circuit)						●			
	KX-T96180	Loop Start CO Trunk (LCOT) Card (8-circuit)						●			
	KX-T96181	Ground Start CO Trunk (GCOT) Card (8-circuit)						●			
	KX-T96182	Direct Inward Dialing (DID) Card (4-circuit)						●			
	KX-T96183	Reverse Polarity Detect CO Trunk(R-COT) Card (8-circuit)						●			
	KX-T96184	E&M Trunk Card (4-circuit)						●			
	KX-T96185	Off Premise Extension (OPX) Card (4-circuit) (KX-T96186 is required)						●			
	KX-T96186	OPX Power Unit for KX-T96185						●			
	KX-T96187	T1 Trunk 24 channels (T1) Card *2						●			
	KX-T96188	E1 Trunk 30 channels (E1) Card *3						●			
	KX-T96189	Pay Tone Detect CO Trunk Card (P-COT : 4-circuit)						●			
	KX-T96191	DISA Card (4 channels)						●			
	KX-T96193	Auto Gain Control (AGC) Card						●			
	KX-T96196	Remote Card (1,200 bps)						●			

SLT : Single Line Telephone   APT : Analogue Proprietary Telephone   DPT : Digital Proprietary Telephone   DISA : Direct Inward System Access   DECT : Digital Enhanced Cordless Telecommunications

*1 The number of the CO keys can be added up to 24 CO with KX-T7545.   Notes:
*2 T1 card takes 2 slots; max 3 T1 cards per shelf; max 8 T1 cards per system.   Some cards will be exported to limited countries. Please contact your dealer and confirm the availability of specific cards in your country.
*3 E1 card takes 2 slots; max 3 E1 cards per shelf; max 6 E1 cards per system.

Optional Accessories
and Telephones for KX-TDA

▶ Optional Accessories and Telephones for KX-TDA

			TDA30	TDA100	TDA200
Telephones	KX-T7625	Digital Proprietary Telephone with Speakerphone (24 CO Keys)	•	•	•
	KX-T7630	Digital Proprietary Telephone with 3-Line Display and Speakerphone (24 CO keys)	•	•	•
	KX-T7633	Digital Proprietary Telephone with 3-Line Back-lit Display,Speakerphone (24 CO keys)*1	•	•	•
	KX-T7636	Digital Proprietary Telephone with 6-Line Back-lit Display,Speakerphone (24 CO keys)*1	•	•	•
	KX-T7665	Digital Proprietary Telephone with 1-Line Display and Speakerphone (8 CO keys)	•	•	•
	KX-T7450	Digital Proprietary Telephone with Monitor (12 CO keys)	•	•	•
	KX-T7425	Digital Proprietary Telephone with Speakerphone (24 CO keys)	•	•	•
	KX-T7431	Digital Proprietary Telephone with Display and Speakerphone (24 CO keys)	•	•	•
	KX-T7433	Digital Proprietary Telephone with Display and Speakerphone (24 CO keys)	•	•	•
	KX-T7436	Digital Proprietary Telephone with Large Display (24 CO keys)	•	•	•
	KX-T7550	Digital Proprietary Telephone with Monitor (12 CO keys)*2	•	•	•
	KX-T7520	Digital Proprietary Telephone with Speakerphone (12 CO keys)*2	•	•	•
	KX-T7531	Digital Proprietary Telephone with Display and Speakerphone (12 CO keys)*2	•	•	•
	KX-T7533	Digital Proprietary Telephone with Display and Speakerphone (12 CO keys)*2	•	•	•
	KX-T7536	Digital Proprietary Telephone with Large Display (12 CO keys)*2	•	•	•
	KX-T7560	Digital Proprietary Telephone with Monitor (8 CO keys)	•	•	•
	KX-T7565	Digital Proprietary Telephone with Display and Speakerphone (8 CO keys)	•	•	•
	KX-T7320	Proprietary Telephone with Speakerphone (12 CO keys)	•	•	•
	KX-T7330	Proprietary Telephone with Speakerphone, 1-Line Display (12 CO keys)	•	•	•
	KX-T7350	Proprietary Telephone with Monitor (12 CO keys)	•	•	•
	KX-T7710	SLT with Message Lamp, One-Touch Dialler, Data Port	•	•	•
	KX-T7101	SLT with Message Lamp, One-Touch Dialler, Data Port	•	•	•
	KX-T7310	SLT with Message / Ringing Lamp, Dialer Set	•	•	•
	KX-T7315	SLT with Message / Ringing Lamp, Speakerphone Set	•	•	•
Others	KX-TCA87	Headset	•	•	•
	KX-TCA89	Headset	•	•	•
	KX-T7090	Headset	•	•	•
	KX-T7603	Add-on Key Module (12 CO keys)	•	•	•
	KX-T7601	USB Module	•	•	•
	KX-T7640	Digital DSS Console (60 DSS)	•	•	•
	KX-T7440	Digital DSS Console (66 DSS / BLF keys)	•	•	•
	KX-T7441	Digital DSS Console (48 DSS / BLF keys, Answer / Release Key)	•	•	•
	KX-T7540	Digital DSS Console (66 DSS / BLF keys)	•	•	•
	KX-T7541	Digital DSS Console (48 DSS / BLF keys, Answer / Release Key)	•	•	•
	KX-T7545	Add-on Key Module (12 CO keys)	•	•	•
	KX-T7340	DSS Console (32 DSS / BLF keys, 16 PF keys)	•	•	•
	KX-T30865	Doorphone	•	•	•
Wireless	KX-TD7590	DECT Portable Station (PS) (Battery charger KX-A278 is required)	•	•	•
	KX-TD7580	DECT Portable Station (PS) (Battery charger is included)	•	•	•
	KX-TD7690	2.4GHz Portable Station (PS)	•	•	•
	KX-TD7680	2.4GHz Portable Station (PS)	•	•	•
	KX-TDA0141	2-Channel DECT Cell Station	•	•*3	•*3
	KX-TDA0142CE	4-Channle Cell Station Unit for DECT Portable Station	•	•	•
	KX-TDA0142	3-Channle Cell Station Unit for 2.4GHz Portable Station	•	•	•
	KX-TDA0143	4 Cell Station Interface Card	•	•	•
	KX-TDA0144	8 Cell Station Interface Card	•	•	•
	KX-A278	DECT Battery Charger for KX-TD7590	•	•	•
	KX-TDA0196	Remote Card		•	•
	KX-TDA0180	8-Port Analogue Trunk Card		•	•
	KX-TDA0181	16-Port Analogue Trunk Card		•	•
	KX-TDA0184	8-Port E & M Trunk Card		•	•
	KX-TDA0187	T-1 Trunk Card		•	•
	KX-TDA0188	E-1 Trunk Card		•	•
	KX-TDA0284	4-Port BRI Card		•	•
	KX-TDA0288	8-Port BRI Card		•	•
	KX-TDA0290	PRI Card		•	•
	KX-TDA0480	4-Channel VoIP Gateway Card		•	•
	KX-TDA0170	8-Port Digital Hybrid Extension Card		•	•
	KX-TDA0171	8-Port Digital Extension Card		•	•
	KX-TDA0172	16-Port Digital Extension Card		•	•
	KX-TDA0173	8-Port Single Line Telephone Extension Card		•	•
	KX-TDA0174	16-Port Single Line Telephone Extension Card		•	•
	KX-TDA0175	16-Port Single Line Telephone Extension with Message Lamp Card		•	•
	KX-TDA0161	4-Port Doorphone Card (for KX-T30865)		•	•
	KX-TDA0162	2-Port Doorphone Card (for German type)		•	•
	KX-TDA0164	4-Port External Input/Output Card *3		•	•
	KX-TDA0166	16-Channel Echo Canceller Card		•	•
	KX-TDA0189	8-Port Caller ID/Pay Tone Card		•	•
	KX-TDA0190	Optional 3-Slot Base Card		•	•
	KX-TDA0191	4-Channel Message Card		•	•
	KX-TDA0193	8-Port Caller ID Card		•	•
	KX-TDA0410	CTI Link Card		•	•
	KX-TDA0103	L-Type Power Supply Unit			•
	KX-TDA0104	M-Type Power Supply Unit		•	•
	KX-TDA0105	Mamory Expansion Card		•	•
	KX-TDA0108	S-Type Power Supply Unit		•	
	KX-TDA3171	4-Port Digital Extension Card	•		
	KX-TDA3172	8-Port Digital Extension Card	•		
	KX-TDA3173	4-Port Single Line Telephone Extension Card	•		
	KX-TDA3174	8-Port Single Line Telephone Extension Card	•		
	KX-TDA3180	4-Port Analogue Trunk Card	•		
	KX-TDA3193	4-Port Caller ID Card	•		
	KX-TDA3280	2-Port BRI Card	•		
	KX-TDA3281	1-Port BRI and 2-Analogue Trunk Card *3	•		
	KX-TDA3480	4-Channel VoIP Gateway Card	•		
	KX-TDA3161	4-Port Doorphone and External Input / Output Card (for KX-T30865)	•		
	KX-TDA3162	2-Port Doorphone and External Input / Output Card (for German type)	•		
	KX-TDA3166	8-Channel Echo Canceller Card	•		
	KX-TDA3168	Extension Caller ID Card	•		
	KX-TDA3191	2-Channel Message Card	•		
	KX-TDA3196	Remote Card	•		
	KX-TDA3199	USB Card	•		
	KX-A236	Optional AC Adaptor	•		
	KX-TDA0300	PC Console Software	•	•	•
	KX-TDA0350	PC Phone Software	•	•	•

SLT : Single Line Telephone   APT : Analogue Proprietary Telephone   DPT : Digital Proprietary Telephone
DISA : Direct Inward System Access   DECT : Digital Enhanced Cordless Telecommunications
*1 The number of the CO keys can be added up to 36 CO with KX-T7603.
*2 The number of the CO keys can be added up to 24 CO with KX-T7545.
*3 Available from Ver.1.1
Notes:
Some cards will be exported to limited countries. Please contact your dealer and confirm the availability of specific cards in your country.

System Capacity

▶ Business Telephone Systems

		T206*1	TA308	TA616	TD816	TD1232	TD1232 (System Connection)	TD500
CO lines	Basic	2	3	6	4	8	16	192 +
	Max	2	6	6	8	12	24	
Extensions	Basic	6	8	16	16	16	32	448 +
	Max	6	24	24	16 (32 *3)	32 (64 *3)	64 (128 *3)	
Intercom paths		2	4	4	Non-blocking	Non-blocking	28 *4	Non-blocking
DTMF receivers		2	2	4	4 *5	8 *5	16 *5	2 per SLC/HLC/DHLC 4 per ESLC
Door intercoms and openers (max)		1 *2	4	4	2	2	4	4

Notes:
*1   KX-T206S has only one hybrid port while KX-T206H has six hybrid ports.
*2   KX-T206H supports a door opener but KX-T206S does not (both support a door intercom).
*3   Maximum for use with XDP and / or the KX-TD174.
*4   The intercom for each control unit is non-blocking. The intercom between control units has up to 28 paths.
*5   The maximum number of receivers (2 receivers per 8 extensions).
 +   The total number of CO lines and extensions cannot exceed 512.

▶ KX-TDA100/KX-TDA200

		TDA100	TDA200
Max. Total Port (Extension+Trunk)		108	216
Max. Extension Port		64	128
	Proprietary Telephone	64	128
	SLT (Analogue Telephone)	64	128
Max. Trunk Port		64	128
	Max. CO (PSTN)	64	128
	Max. Analogue DID	16	32
	Max. E&M (Tie Line)	32	64
	Max. E1	2 (60-ch)	4 (120-ch)
	Max. T1	2 (48-ch)	4 (96-ch)
	Max. BRI-ISDN	32 (64-ch)	64 (128-ch)
	Internal BRI (S0 BUS)	32 (64-ch)	64 (128-ch)
	Max. PRI-ISDN (30B)	2 (60-ch)	4 (120-ch)
	Max. PRI-ISDN (23B)	2 (46-ch)	4 (92-ch)
	Internal PRI (30B)	2 (60-ch)	4 (120-ch)
	Internal PRI (23B)	2 (46-ch)	4 (92-ch)
	Max. IP Gateway	2 (8-ch)	4 (16-ch)

▶ KX-TDA30

		Initial	With Additional AC Adaptor
Max. Total Port (Extension+Trunk)		36	36
Max. Trunk Port		8 or 12	8 or 12
	Analogue Trunk	8	8
	ISDN Trunk	12-ch	12-ch
	Max. IP Gateway	1 (4ch)	1 (4ch)
Max. Extension Port		28	28
	Analogue Proprietary Telephone	4	4
	Digital Proprietary Telephone (Current)	4	24
	Digital Proprietary Telephone (T7600 series)	24	24
	DSS Console	4	4
	Cell Station	4	8
	Voice Processing System	4 (1 system)	4 (1 system)
Wireless Telephone		28	28
Doorphone Port		4	4

PBX Total Solutions

Revolutionary changes are occurring today in both telecommunications and information technology. Our business environments are also changing to focus more on solution-oriented applications. Panasonic business telephone systems are uniquely positioned to maximise the benefits to be afforded by such changes, with products that are always at the cutting edge and packaged in such a way as to offer customers a total solution approach.

- Small Call Centre Management
- Messaging Solutions
- Professional Billing or Hospitality
- Networking Solutions
- Wireless Solutions
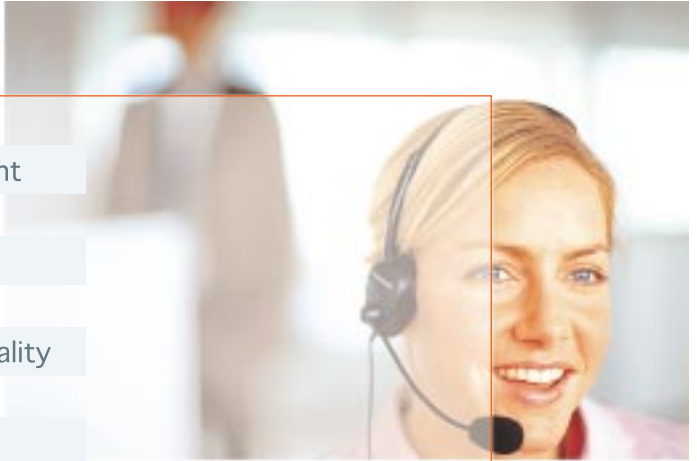
Small Call Centre Management

No matter how large or small your operation, Panasonic offers PBX systems that make you look brilliant. Our intelligent call-management features help improve work efficiency, increase customer satisfaction, and polish your company image. Panasonic digital telephone systems provide Uniform Call Distribution (UCD), which distributes calls to a group of extensions for your agents to answer. When all agents are busy, the system serves as a receptionist, playing a message to the caller. A supervisor can monitor the call status on the LCD of Digital Proprietary Telephone and check the real-time performance for the management decisions.

▶ **Optional software** (KX-A296/KX-A297) lets you integrate your telephone system with a PC, giving you advanced call centre functions and even greater productivity. Calls can be automatically delivered to the extension that has been idle the longest, distributing the workload equally among agents. Supervisors can instantly access and analyse the status of all agents and control the agent log in/out from the console, and change the call treatment table at any time according to the call traffic status.

▶ **Computer Telephony Integration (CTI)** paves the way to enormous improvements in efficiency by allowing telephone systems to connect with computer systems. The potential for CTI applications is large already and growing fast. For example, when your staff member is talking on the phone with a customer, the computer can automatically retrieve and display data on the caller, the account status and history, purchasing patterns, and other useful information. CTI is a valuable tool that can help your company improve sales and provide better customer service.

Very Busy

Control Agent Log-in

Supervisor

Agents

Agent

KX-TD1232   Queuing
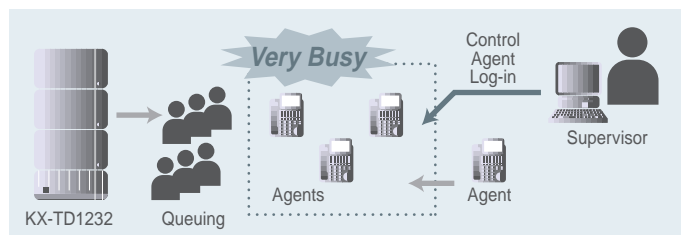
Messaging Solutions

Panasonic's messaging solutions give you multilingual capabilities and efficient call handling, so you can give customers the service and support they deserve. You also benefit from a system that takes messages automatically and keeps you in touch 24 hour a day. And, of course, you'll love the cost savings. Panasonic's messaging solutions mean more convenience for you and more satisfaction for your customers.

Automated Attendant Service
You can customise the Voice Mail System to the specific needs of your callers. This lets you serve callers 24 hours a day in the language of their choice. You can record messages telling callers your e-mail address, inviting them to send a fax, or directing them to a colleague for additional information.

Voice Mail Service
When callers reach your mailbox, they can hear a personal greeting that you recorded (in any language you want) and then leave a message. You can also set the system to automatically forward messages to a backup mailbox, if desired.

Interview Service
The Panasonic Voice Mail System can provide a kind of "interview service". You can record up to 10 questions and set the system up so that when someone calls, he or she is sent to the question-and-answer mailbox. The system will ask the questions and then record the caller's answers. This is ideal for such uses as taking mail orders, screening job applicants, or conducting surveys.
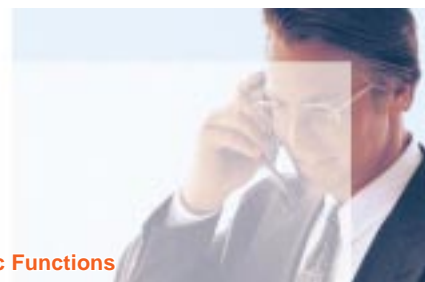
Exclusive Panasonic Functions

▶ **Live Call Screening (LCS)**
When the LCS mode is activated, you can monitor incoming messages and decide whether or not to take the call. This handy feature is similar to having a telephone answering machine right at your desk.

▶ **Two-Way Recording**
This feature allows an extension user to record a conversation in a mailbox by simply pressing the Two-Way Record function key. A variation of this feature is **Two-Way Transfer**, which permits the extension user to record a conversation in another Subscriber's mailbox; this is ideal for firms that want their receptionists to personally record messages from callers.

▶ KX-TVP50

- Supports 32 individual password-protected mailboxes that can hold up to 100 messages each
- 2 ports and Max. 4-hour system recording time
- Mailbox can be set up to answer up to ten caller questions
- When connected with the KX-TD816, 1232, or 500, provides live call screening, two-way recording, two-way transfer, customised greeting for caller ID, and caller ID information recording
- Multi-lingual service

▶ KX-TVP200

- Supports 1,024 individual password-protected mailboxes that can hold up to 100 messages each
- Up to 12 ports and 32-hour system recording time
- When connected with the KX-TD816, 1232, or 500, provides live call screening, two-way recording, two-way transfer
- Multi-lingual service

▶ KX-TVP300

- Supports 1,024 individual password-protected mailboxes that can hold up to 100 messages each
- 0 to 24 ports and Max. 64-hour system recording time
- Mailbox can be set up to answer up to ten caller questions
- When connected with the KX-TD816, 1232, or 500, provides live call screening, two-way recording, two-way transfer, customised greeting for caller ID, and caller ID information recording
- Multi-lingual service

PBX Total Solutions

Professional Billing or Hospitality

For companies in the hospitality field, Panasonic PBX systems are a great tool for improving productivity and customer service. These systems provide a built-in hotel function with features such as check in/out, wake up call, and more. They can also be integrated with an external charge box and message-waiting lamps on room telephones.

Use of a **Property Management System (PMS) interface** (KX-A291/KX-A292/KX-A293) allows the KX-TD500 to link with computer-based hotel management software, for efficient operation with most of the world's hotel software. This provides several features that boost efficiency and let you provide better customer service, including:

- Check in/out
- Wake up call set/cancel/confirmation/alarm
- Message waiting lamp on/off
- Room status information
- Call accounting
- Set / Clear extension name

Networking Solutions

Any type of business can benefit from a reliable, low-cost, easy-to-use inter-office networking system. Features such as E&M leased lines and voice-over IP can help you cut costs dramatically while enjoying easy access within a private inter-office network. For example, network numbering lets you assign telephone numbers to each extension at a branch or head office, saving time and money.
The KX-TDA Hybrid IP PBX system supports QSIG protocol, allowing you to interconnect multiple PBX locations to build a large, effectively seamless virtual telephone system, as well as giving you access to more advanced communication functions.

Wireless Solutions
(DECT / 2.4GHz)

DECT

▶ **KX-TD7590**

DECT
- 4 lines with 16-character LCD for calling line ID display and easy operation
- Automatic Answer/Release with headset
- Programmable buttons for accessing CO (incoming call) line/ICM or PBX features
- Incoming call indication by Ringer/Vibration/Meeting Mode
- Battery – Talk time: 11 hours, Standby time: 120 hours
- 100-directory dialling
- Illuminated keypad
- Up to 64 wireless handsets can be registered to the KX-TD1232
- Up to 16 wireless handsets can be registered to the KX-TD816
- Dimensions (LxWxD) : 142 x 40 x 18 mm
- Weight : 73 g

Wireless compatible, Panasonic Business Telephone System gives you greater efficiency and mobility with communication powers that go way beyond the office. In operations such as factories and warehouses, it lets your staff stay on top of merchandise while moving about the shop floor. At car dealerships and other businesses with widespread locations, it lets you respond to customers more quickly. This new digital system lets you provide prompt customer service and make the most of every business opportunity.
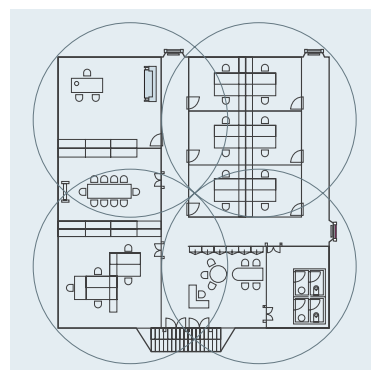
2.4GHz

▶ KX-TD7580

DECT
- 3 lines with 16-character LCD for calling line ID display and easy operation
- Incoming call indication by Ringer (6 tones / 14 melodies)
- Battery – Talk time: 15 hours, Standby time: 120 hours
- Speakerphone for handsfree talk
- 100-directory dialling
- Illuminated keypad
- Up to 64 wireless handsets can be registered to the KX-TD1232
- Up to 16 wireless handsets can be registered to the KX-TD816
- Dimensions (LxWxD) : 136 x 49 x 32 mm
- Weight : 152 g

▶ KX-TD7690

2.4GHz Wireless Telephone
- Pocket Size Mobility
- Navi-key Operation
- 5 lines by 16 characters LCD with back light
- Vibrator Ringing
- 100 directory dialling
- Illuminated Keypad
- Speakerphone Operation
- Auto Answer
- 4 Melodies and 6 Ringing Patterns
- 2 LCD Colours by Caller ID
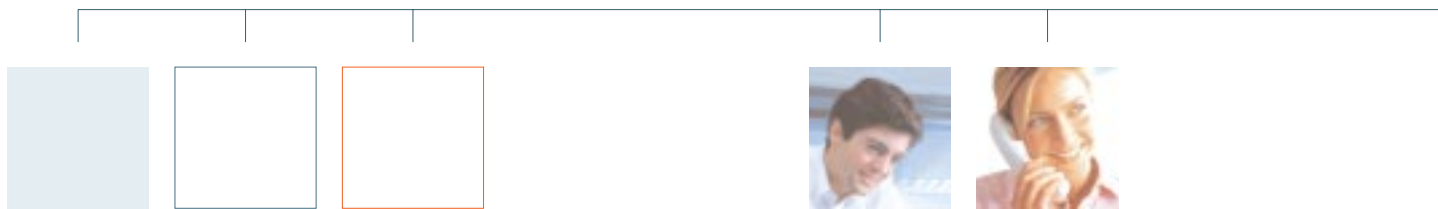- Dimensions (LxWxD) : 136 x 40 x 19 mm
- Weight : 71 g

▶ KX-TD7680

2.4GHz Wireless Telephone
- Pocket Size Mobility
- Navi-key Operation
- 3 lines by 16 characters LCD with back light
- Vibrator Ringing
- 100 directory dialling
- Illuminated Keypad
- Speakerphone Operation
- Auto Answer
- 4 Melodies and 6 Ringing Patterns
- Dimensions (LxWxD) : 151 x 49 x 32 mm
- Weight : 143 g

Panasonic