

Panasonic

ideas for life



Office Communication Systems

KX-TDE100
KX-TDE200

New Telephony Systems Offering Solid IP Solutions

DECT 6.0

The Panasonic Full-IP PBX Debuts Together with Versatile New IP Phones.

A Pure IP PBX for an IP Platform and Traditional Telecom Lines.

Today's offices are shifting from traditional telecom systems to low-cost, flexible IP systems that take full advantage of the rapid growth in IP applications and globalization. The KX-TDE100 and KX-TDE200 can be used to construct a full-IP telecom system, making them a perfect match for these new communications systems. The KX-TDE100 and KX-TDE200 offer new, standard-equipped IP functions that boost efficiency and lower communication costs.

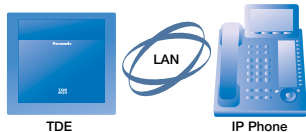
They also include convenient and highly effective features such as wireless operation, voice mail and CTI. For companies planning to switch to a full-IP system, Panasonic IP-PBX systems offer a scalable, easy-to-use platform that adapts to a wide range of business fields for future expansion. In addition, these models also support traditional telecom lines, so they allow IP systems to be integrated with conventional telecom systems such as ISDN and analogue lines. Depending on the

office environment, it may be difficult to switch an existing traditional telecom line to a full IP system all at once due to time and cost restrictions. The KX-TDE100 and KX-TDE200 respond flexibly to needs like this. By changing the main board in the current TDA series, a new system can be easily constructed. This lets the KX-TDE100 and KX-TDE200 provide optimal solutions for companies that want to smoothly migrate to an IP system while continuing to use their existing telecom network.

Key features of the Panasonic KX-TDE100/TDE200

Full-IP compatibility

Low-cost, flexible IP system construction



Using an IP network to reduce costs.

Outstanding versatility

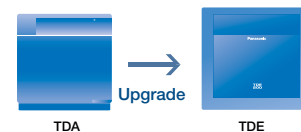
Because the KX-TDE100/TDE200 are compatible with existing infrastructure (Analogue/ISDN lines, etc.), they are ideal for offices that want a phased migration to an IP system.



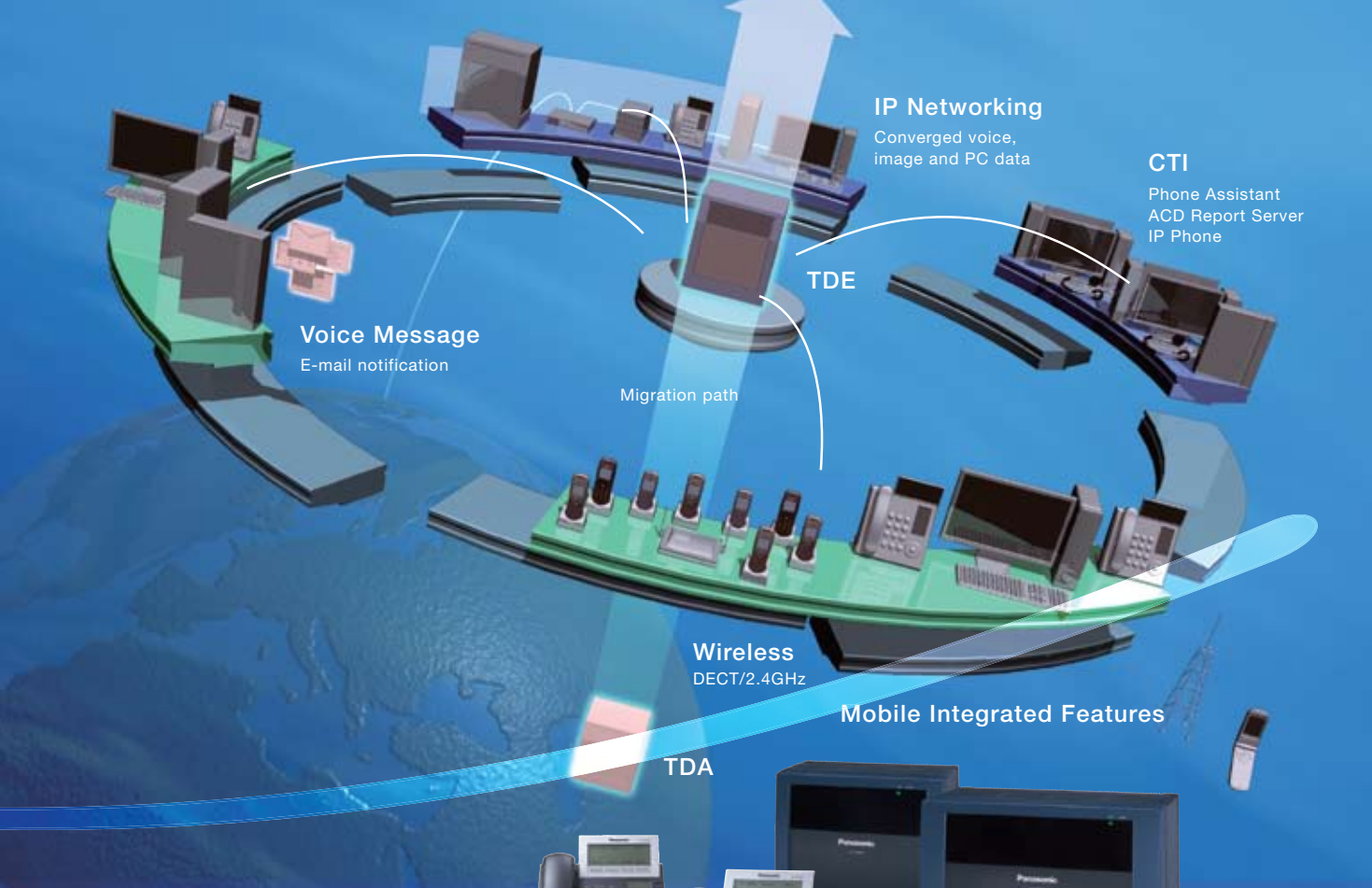
Partial incorporation of an IP system into a traditional telecom system. Switching to a full-IP system in the future.

Attractive system for TDA users

The functions of the newest TDE series can be used by simply replacing IPCMPR Card.

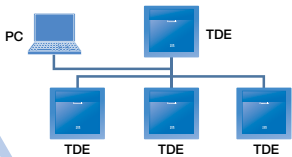


Integrated Office Solutions and Business Productivity.



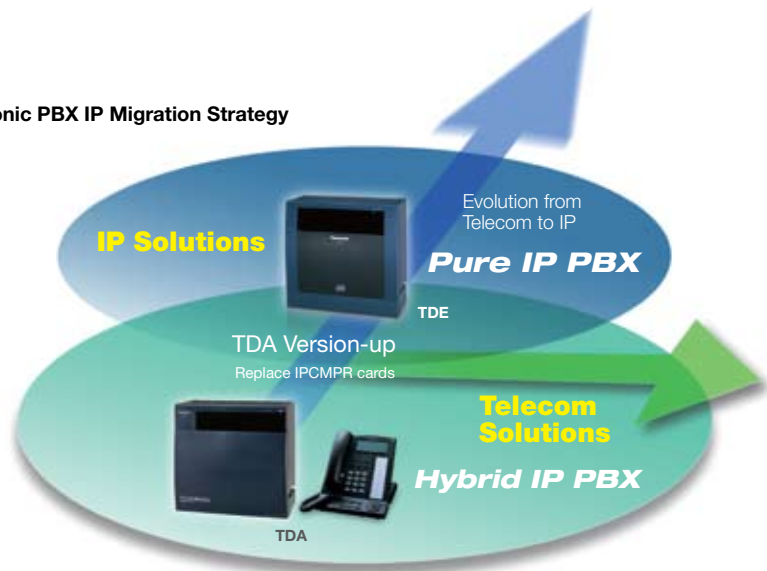
Easy setup and maintenance

The TDE uses the same PC programming software operation that is used in the TDA series and supports multi-site programming. It is able to manage up to four TDEs on the network by PC operation.



Central management of remote sites.

Panasonic PBX IP Migration Strategy



Panasonic TDE Series... Power Enhancing Features

The KX-TDE series Pure IP PBXs are advanced corporate communication systems providing IP telephony features and functionalities over both local and broadband IP networks.

They are an ideal communication platform to help customers solve all their business telephony needs today as well as in the future as they embrace full IP telephony, empowered with the latest SIP technology.

New IP Features in the TDE

- **Full-IP compatibility**
 - Up to 128 IP-proprietary telephones and 64 IP-trunks with the optional DSP card.
 - Up to 128 standard SIP phones.
- **Support for the new IP-PT KX-NT300 series**
- **Fully equipped with KX-TDA functions and solutions**
- **Server connection**

The TDE series will connect DHCP/SNTP servers and SNMP manager as either client or agent.
- **Enhanced walking extension**
- **Easy Maintenance**
 - Using a PC Programming Software, with the same method as the TDA series.
 - 2 Built-in LAN ports

Server connection

The TDE supports the connection of the following, allowing for enhanced efficiency and record keeping.

- DHCP client for TDE
- SNMP Agent/Alarm
- SNTP client

Enhanced walking extension (Hot Desking)

It is possible to use any extension, and to have your extension setting available whenever you want it. This is a very useful feature when...

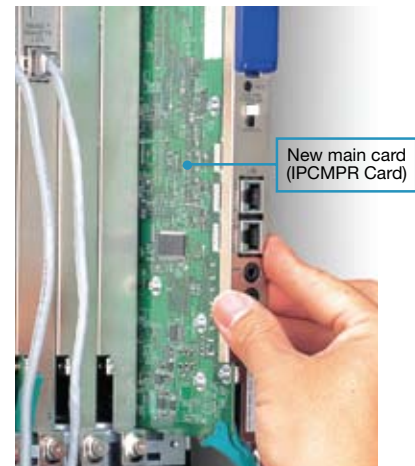
- You move locations
- There is no specific desk for you to use.

Easy Maintenance

- Using the web interface of the Phone Manager software, both telephone users and system administrators can perform easy changes to the system.
- 2 Built-in LAN ports

Ideal for TDA Series users

- Uses TDA's option cards and inherits its easy operation.
- Simple setup
- Easy maintenance
- Full support of TDA features
- Upgradeable to TDE by changing the main card (IPCMPR card) in the TDA



Upgrade from TDA to TDE



Panasonic Telephone Terminals Perfect For Any Business

Panasonic provides a wide range of telephone terminals to suit your business needs, including Digital, IP, SIP, and DECT - All are compatible with Panasonic's range of solutions. For businesses, personal contact with customers is a significant factor for success. Keeping in touch is at the heart of all communications - without any concern as to how the communication is conveyed: via IP, by traditional telephony or by employing wireless technology. What is crucial for businesses is quality and reliability. With such a wide choice of telephone terminals to choose from, Panasonic provides a solution suitable for all business industries including hospitality, health services, education, local council/government, sales, and much more.



IP Telephony

During the late 1990's the internet really began to change the way data was communicated and the telephone industry progressed to using Internet Protocol (IP) telephony. IP Telephony today is just as reliable, has many advanced features, and can be used in the home, local or remote office locations.

Proprietary Telephones for an Easy Touch



The KX-TDE Telecommunications Platforms support the KX-NT300 and KX-NT400 Series IP telephones that are stylish, intuitive, user friendly, and comfortable to use by all system telephone users. Panasonics IP telephones take you to a new dimension in audio quality, communications productivity, broadband network connectivity and customer care. These IP telephones bring you the power of the advanced KX-TDE IP PBX systems - allowing quick access to the entire spectrum of the PBXs additional features and applications. The IP telephones offer superb voice quality thanks to hands free speakerphone, acoustic echo cancellation, and support for wide-band G.722 audio.



KX-NT400 Advanced IP Telephone C

- Innovative and stylish high-end IP telephone
- Large, colourful touch screen interface
- Built-in Communication Assistant and Web Browser
- Bluetooth® (for Bluetooth headset) and USB (for optional keyboard)
- Power-over-Ethernet (PoE)



KX-NT343/NT346 C

- 3 or 6-Line Backlit Display
- 24 Flexible CO Buttons
- Speakerphone
- 2 Ethernet Ports (100 Base-T)
- Power-over-Ethernet (PoE)
- Bluetooth® Module (Option)
- Add-on 12-Key Module (Option: KX-NT303) or Add-on 60-Key Module (Option: KX-NT305)



KX-NT321 C

- 1-Line Display
- 8 Flexible CO Buttons
- Speakerphone
- 2 Ethernet Ports (100 Base-T)
- Power-over-Ethernet (PoE)

OPTIONS FOR KX-NT

Add-on Key Module



KX-NT303 C

Add-on 12-Key Module
(For KX-DT343/NT343 and KX-DT346/NT346 only)

KX-NT305 C

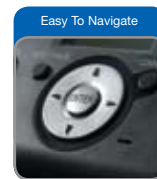
Add-on 60-Key Module
(For KX-NT346 and KX-NT343 only)

KX-NT307 C

Bluetooth® Module
for Bluetooth® headset support



Back-lit LCD Display



Easy To Navigate



Multi-tilt Angle Adjusting



Optional Bluetooth Mode



Self Labelling Keys



The Perfect Match – Panasonic Digital Telephones

Digital telephony was established in the 1980's as a technological progression from the traditional analogue telephony system. It is reliable and provides a wide range of features.

The Panasonic KX-DT300 Series advanced desktop phones are designed for business users who require a range of feature-rich telephony devices to match their constantly changing business needs.

These easy to use, advanced business class telephone devices are designed for effective daily communications. Connected to the Panasonic IP PBX Communication platforms, the digital terminals are extremely reliable and provide a wide range of features to support the right solution for all your business applications.

OPTIONS FOR KX-DT

Add-on Key Module



KX-NT303 C

Add-on 12-Key Module
(For KX-DT343/NT343 and
KX-DT346/NT346 only)



KX-DT390 C

Add-on 60-Key Module
(for KX-DT343 and
KX-DT346 only)



KX-NT307 C

Bluetooth® Module
for Bluetooth® headset
support

KX-DT301 C

Optional USB Module
For Desktop CTI
Applications (KX-DT343
and KX-DT346 only)



KX-DT346 C

- 6-Line Backlit Display
- 24 Flexible CO Buttons
- Speakerphone
- Bluetooth® Module (Option)
- Add-on 12-Key Module (Option: KX-NT303)
or Add-on 60-Key Module (Option: KX-DT390)



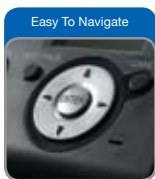
KX-DT343 C

- 3-Line Backlit Display
- 24 Flexible CO Buttons
- Speakerphone
- Bluetooth® Module (Option)
- Add-on 12-Key Module (Option: KX-NT303)
or Add-on 60-Key Module (Option: KX-DT390)



KX-T7667 C

- 1-Line Display
- Flexible CO Buttons (12 CO Buttons)
- Speakerphone



Wireless Solutions

Panasonic Wireless Solutions... Flexible Communication

The TDE's wireless solutions enhance mobility and flexibility for offices, healthcare, big shops, etc.

Wireless for TDE series

Panasonic Office Communication Systems allow wireless communication over an extended range by using multiple cell stations that boost the flexibility and mobility of your wireless handset. Using the Wireless XDP, you can set your wireless telephone to have the same extension as your desk phone, and then receive calls even when you are away from the desk. You are always there, ready to receive customer calls, and make the most of every business opportunity that comes along.

Benefits of Wireless Telephone Integration

- Up to 128 handsets can be connected to one system
- Secure high-quality speech reproduction and excellent reliability
- Caller ID name and number compatibility*
- Programmable multiple ring patterns, including vibrate mode

*Requires subscription to a fee-based telephone service.



DECT



Business Class Wireless DECT mobility for Your Panasonic PBX System

The Tough Type KX-TD7696 handset meets strict dust- and splash-resistant IP54 standards and offers a vast array of business telephony features. The KX-TD7695 DECT handset combines small size and light weight with a host of powerful business telephony features. And the KX-TD7685 is an excellent choice for users who want great basic performance at a lower cost.

*The KX-TD7685, KX-TD7695 and KX-TD7696 must be connected to a compatible Panasonic Phone System.

As for KX-TD7696 Tough Type Model

- IP5* = Dust resistance (Protection from dust penetration to a level that does not interfere with the operation of the handset)
- IP*4 = Water resistance (Protection against splashing water)
The Panasonic KX-TD7696 DECT Handset complies to UKAS IP54 testing standards.
- Impact absorbing rubber is adopted around the KX-TD7696.
- The cabinet (outer plastic covering) is also used impact-touch materials.



DECT 6.0

KX-TD7685, KX-TD7695 and KX-TD7696

- 6-line blue LCD backlight
- Illuminated keypad
- Multiple language display
- Speakerphone
- Programmable soft keys
- PBX functionality support*1
- 100 entry phonebook
- Headset compatible
- 9 polyphonic ringer melodies and 6 ringing patterns
- Vibrate alert*2
- Meeting mode

*1The KX-TD7685/7695/7696 must be connected to a compatible Panasonic phone system. *2 Vibrate mode only for KX-TD7695/7696

Compact Business Model



KX-TD7695

Basic Model



KX-TD7685

Tough-type Model (IP54 compliant)



KX-TD7696

Impact-absorbing rubber installed on the entire circumference

External cabinet made of impact-resistant material

Cell Stations



KX-TDA0155

Cell Station 2 speech path



KX-TDA0156

PPT I/F Cell Station 4 speech path CS I/F



KX-TDA0158

Cell Station 8 speech path



KX-NCP0158

IP Cell Station 8 speech path

Maximum Terminal Equipment

The following shows the number of each terminal equipment type supported by the PBX

Terminal Equipment Type	KX-TDE100	KX-TDE200
Basic CS	32	32
High Density CS (KX-TDA0158)	16	32
IP-CS (KX-NCP0158)	16	16
Portable Stations	128	128

*KX-TDA0158 counts as 2 Cell Stations

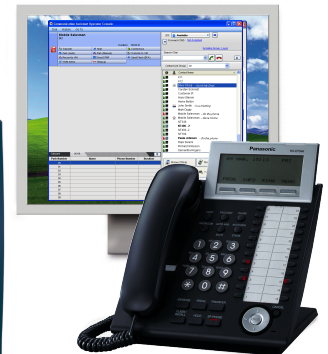
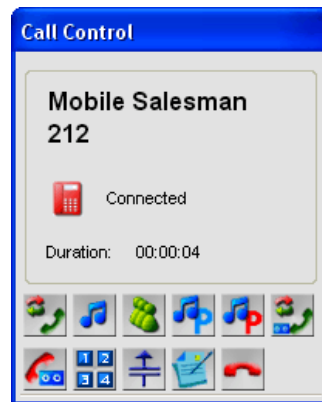
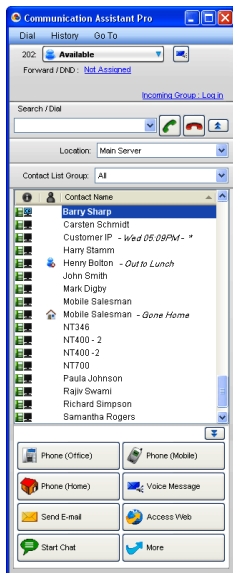
DECT Required Equipment and Maximum Number of Calls

CS	Connection Card	Maximum Calls	Compatible PSs
KX-TDA0155	DHLC,DLC	2	TD7685 TD7695 TD7696
KX-TDA0156	Cell Station I/F	4	
KX-TDA0158	DHLC,DLC	8	
KX-NCP0158	V-IPCS	8	

Management Applications

Providing customers with intelligent call handling through Computer Telephony Integration (CTI).

Communication Assistant enhances personal, team and business productivity.



Panasonic Communication Assistant

As personal computers have become an essential business tool, Panasonic has developed a Network Communication Platform to seamlessly integrate with advanced desktop productivity applications for improved business efficiency.

The Panasonic Communication Assistant productivity software suite is a highly intuitive PC based application suite. It blends powerful point and click telephony together with screen based presence, integration with Microsoft Outlook®, CRM desktop tools, and a great variety of other features to simplify and enhance real-time communications for business telephony users. Designed for easy installation and maintenance, Communication Assistant can be deployed without the need of any additional 3rd party server, making it an ideal solution for small to medium size businesses.





CA Basic Express

Free Point and click Unified Communications for desk based or remote workers. CA Basic Express helps you visually control all your communications, including real-time presence, from your PC.



CA Pro

In addition to CA Basic the CA Pro provides users with advanced call history, contact and ICD group functionalities. It allows visual control of all your communications from a PC and you stay informed of users availability in different locations.



CA Supervisor

CA Supervisor is the perfect tool for team supervisors to monitor employees' call activities. It helps you visually manage all your group members telephony activities.



CA Operator Console

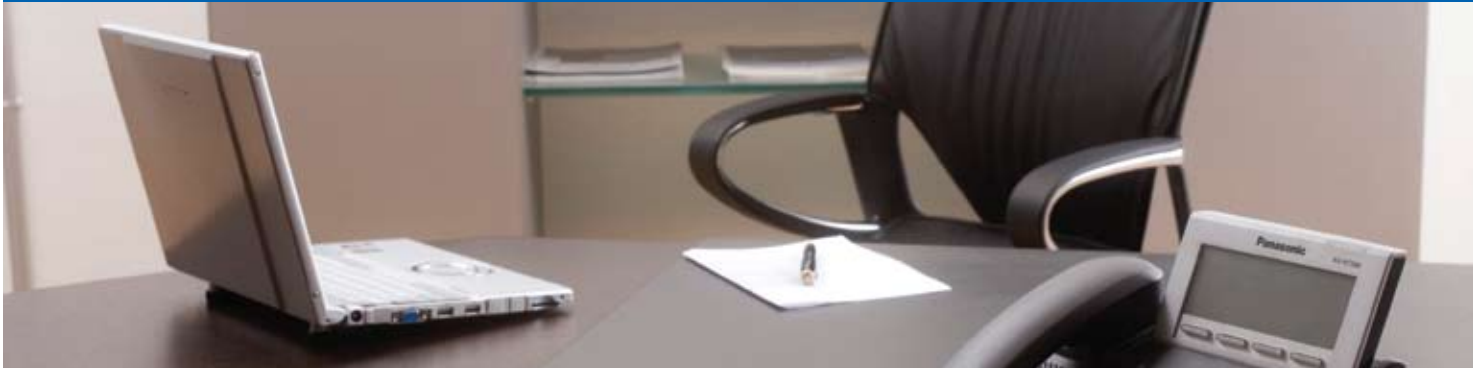
A company receptionist can use the PC based Operator Console to quickly and easily handle large volumes of calls - professionally, easily handling company communications between customers and colleagues. Call parking and extension management features are available.



VM Assistant

VM Assistant enables unified messaging and allows users to check their voicemail messages visually from a PC. It also allows you to forward messages to others as .wav files.

Advanced Messaging Solutions By Panasonic



KX-TVM50/200 Voice Messaging Systems – Never Miss A Call

The human voice is still the best way to communicate. Panasonic offers two feature packed voice processing systems designed for efficient communication. The KX-TVM50 and KX-TVM200 offer automated attendant, automatic call routing, and message notification, each of which can be customized to your individual needs.



KX-TVM Key Features:

The KX-TVM50/TVM200 offer a host of voice messaging based features such as:

- Voice Messaging Service
- Automated Attendant Service
- E-Messaging (email notification with voice message attachment)
- Interview Service
- Voice Mail Menu on LCD of system phones for easier operation
- Caller Name Announcement
- Called ID / CLIP based Greetings
- Call Screening
- Call Recording
- Holiday Service
- Multi-Lingual Voice Prompts
- Fax Detection / Routing

With the KX-TVM50 and KX-TVM200, Panasonic delivers new levels of communication with ease and efficiency that can help any business achieve high productivity.

Centralized Voice Mail

For networked multi-site deployments, centralized voice mail is possible for up to 8 networked TDE Pure IP PBX systems. Extension users from each branch site can forward calls when in a busy or no-answer state to the central voice messaging system and access messages by using VM access codes.

KX-TVM50/200 Specifications	KX-TVM50	KX-TVM200
Number of Ports	2 to 6	0 to 24
Voice Storage	Initial: 4h Max: 8h	Max. 1000h
Number of Mailboxes (including System Manager and Message Manager mailboxes)	Max. 64	Max. 1024
Number of Message	Unlimited	
Memory Media	Flash Memory	HDD
Remote Modem	Modem Card (Max. 33,600 bps)	



IP Softphone

KX-NCS4208

Mobility

Enjoy smooth communications through your PC with virtually the same level of functions that you would have if you had brought your office phone with you.

Transparent Integration

You can administer and operate IP telephones just like other extension telephones.

Flexibility

IP technology lets you send data and voice over the same line.

Around the world

For example, communicate with colleagues around the world with low cost and high efficiency.



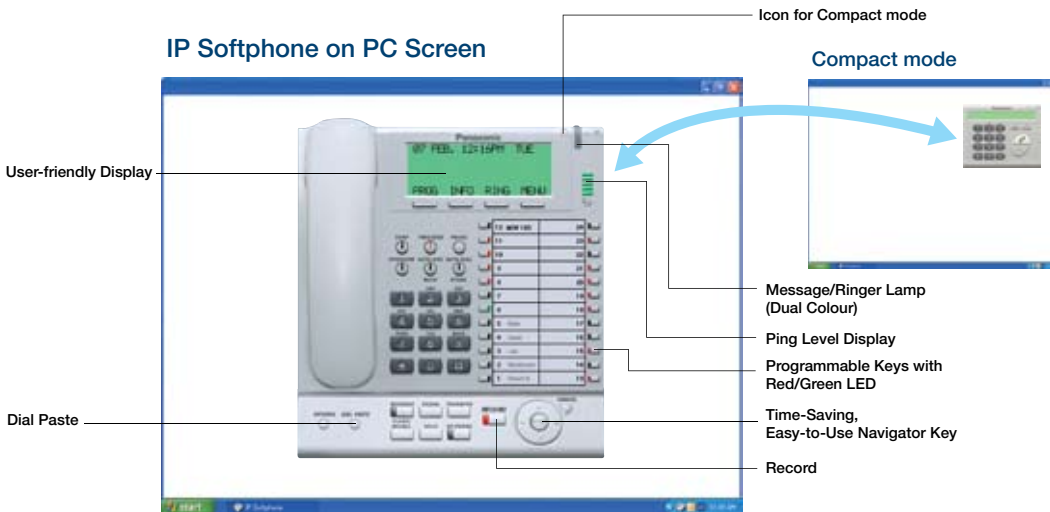
In home offices

For example, gain the same kind of benefits as if you had your own call centre right in your office at home.

Application Examples

- Allows your employees to access the full functionality of your office telephone extension anywhere, anytime
- Staff can work remotely, efficiently & transparently
- Your business can also benefit from greater organizational flexibility

IP Softphone on PC Screen



Softphone Specifications

Alphanumeric Display (LCD)	6 lines x 24 characters
Programmable Keys with Dual Colour LED	24
Direct Station Selection (DSS) Keys with Busy Lamp Field (BLF)	Yes
Dial Paste	Yes
Record	Yes
Station Speed Dial	10 Numbers
USB Handset with Audio Ringer on PC	Yes
Peer to Peer Connection with NT300 Series	Yes

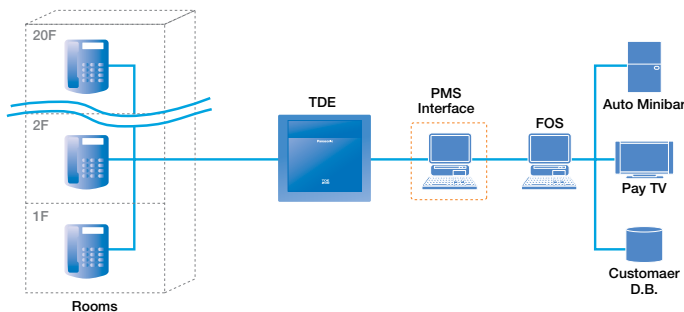
Panasonic Office Communication Systems Are Ideal for Any Business, Any Location

For the majority of businesses, personal contact with the customer is a significant factor for success. The telephone system is at the heart of all communications – without any concern as to how the communication is conveyed: via IP, by traditional telephony or by employing wireless technology. What is crucial for businesses is quality and reliability. Panasonic provides wide variety of solutions to cover any individual requirements.



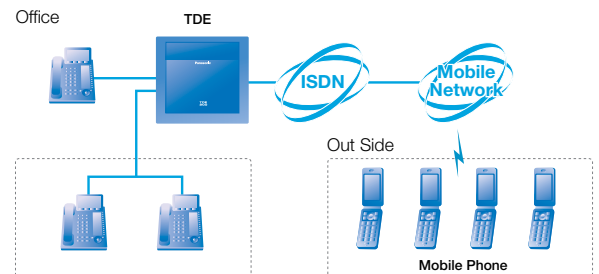
Hotel

The Hospitality market requires the communications system to be flexible, economical, and easy to use, with maximum reliability and adaptability for the individual needs. The possibility of PC integration to allow guest room billing and system management has also become a requirement of this sector. The TDE Systems are perfectly equipped with all these necessary hospitality features and solutions.



Sales

In today's competitive world, personal contact becomes ever more important to the customer. Customer satisfaction, maximum flexibility and accessibility provide the crucial lead in this sector. With a solution from Panasonic, everything that you need is already built in as standard.



Administration

Public administrations see themselves today more than ever as service providers. Their services must be carried out in spite of the increasing pressure of cost management for government, council and municipal authorities. Panasonic offers such establishments a telecommunications solution which helps them maintain and keep their costs in check.



Medical

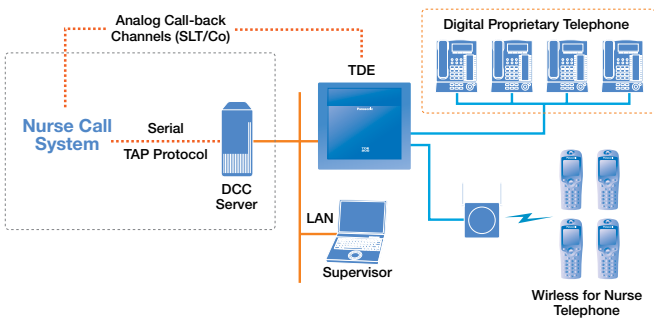
To be able to work effectively and comfortably in a medical environment, it is necessary that the telecommunication system is adapted perfectly to fit the needs of this type of activity. In the field of health, Panasonic alleviates the continual increase in costs and allows easy integration with life saving technologies.





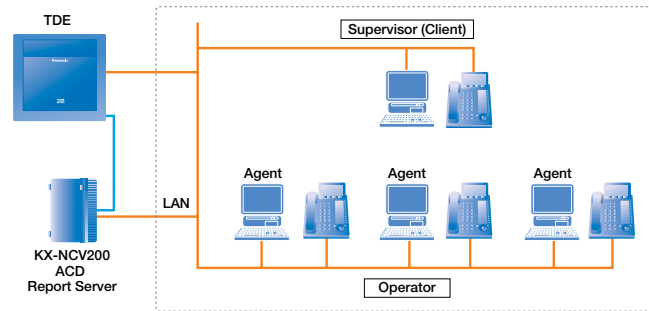
Health Service

A telecommunication system in nursing facilities and resident housing must be consistent above all to the requirements of people in need. Panasonic offers custom-made solutions that can be integrated with computers to support administrative tools and emergency call systems. The investment ensures security by flexible, future-safe technology.



Customer Service

We all would like to offer our customers the best service we possibly can, and while you might be the best today, what about tomorrow? Panasonic Telecommunication systems offer service-orientated solutions, which can be expanded to meet your customer's needs now and for days to come.



Production Enterprises

High flexibility, economy and maximum reliability as well as adjustment to individual needs are important criteria, which telecommunication systems must fulfill. The KX-TDE outshines here as it was developed with manufacturing plants and production departments in mind. With its ultramodern design and future ready solutions, experience a new dimension of efficient communication.



Logistics

Logistics requires smooth and reliable transport of information. This is why logistics companies have particular requirements when it comes to telecommunications systems. With possibility for integration into modern EDP systems and mobile accessibility, the KX-TDE systems can become the driving force for your business today, tomorrow and in the future.



Legal

The legal industry of law firms, notaries, attorneys, solicitors etc have specific requirements when it comes to business communication. Attorney client conversation may need to be recorded - or clients may need to be billed for calls. Law firms may prefer to have secure entrances monitored via IP cameras. The KX-TDE addresses all these unique communication needs of the legal industry - yet provides all these and more solutions in a cost effective manner.



