

## Equipment Overview

### Smart Hybrid PBX **NS700**



## Overview of the KXNS700

### **Flexible IP Platform**

With the KXNS700, it is possible to add activation keys to flexibly increase capacity or functionality when required according to the growth of your company. Numerous TDM options cards and expansion chassis provide digital and analog connectivity and expandability.

### **Scalability**

The KXNS700 is an IP Hybrid network communications server with a scalable TDM multi-chassis configuration. It supports the KXNS1000 One-look Networking functionality for a full transparent network for up to 1000 terminals.

### **Enhance Productivity**

With built-in voice mail, fax server, and Communication Assistant, it is easy to know who is available, and how best to contact them at any time.

### **Wireless Solution**

The DECT Wireless System and cellular phone integration means you can stay in touch, even when you're on the move. CA Mobile (RCS) mobility solution is the response to this business-critical need, giving you Unified Communications functionality with just one application. So wherever you or your mobile workforce is operating, communication remains clear, constant and cost-effective.

### **Improve Customer Responsiveness**

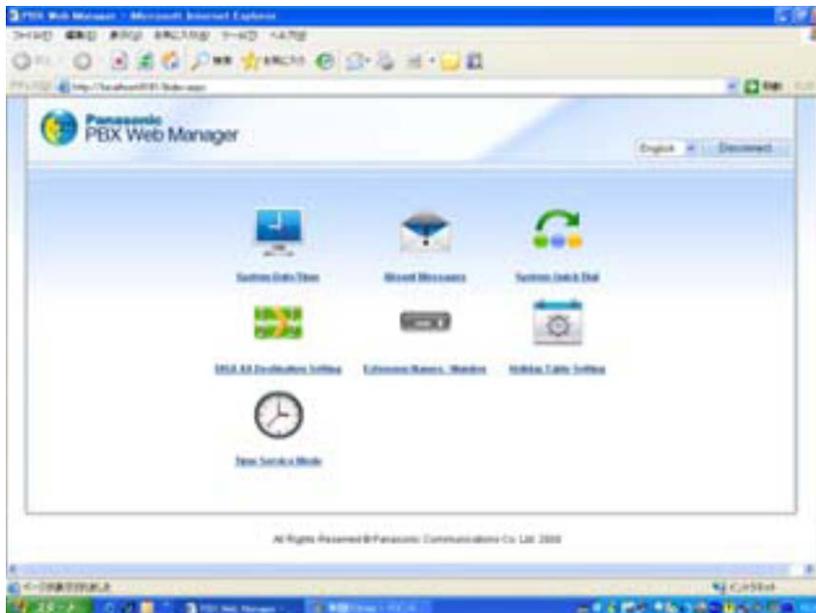
Easy Call Centre, an integrated application for call grouping and routing, ensures the right person takes every call.

## KEY FEATURES

**Free Software Upgrades** - PBX software and firmware are free-of charge from Panasonic.

**Cellular Integration (Cellular XDP)** - Using PRI or SIP trunking with a software license anyone on the PBX can have their cellular phone ring along with their office telephone.

**Central Management One-look Networking** - One-look Networking is a system where a single KXNS1000 works and provides PBX features even though numerous NS1000 and NS700 units are networked together in a non-blocking call routing environment. It is not necessary to provide additional servers. The system can be expanded easily via a web-based maintenance console. IT departments can use any networked PC with a standard web browser to use the Web Manager to change system date and time, change extension names, alter the COS level of the extensions, edit absent messages used by extension users and program other PBX settings.



**Media Relay Gateway (MRG) / Session Boarder Controller (SBC)** – These built-in no-charge applications will allow either proprietary IP phone or SIP-based phone functionality without the need for VPN connectivity.

**Built-in Voice Mail Server** – Two-ports and two hours of Enhanced Simplified Voicemail comes preinstalled for basic mailbox functions and small-scale Auto Attendant applications. The optional built-in voice mail can handle incoming calls, record messages and conversations, and manage mailboxes all from a cellular phone. Two channels and 500 mailboxes are preinstalled and can be upgraded to a maximum of 24 ports and 400 hours with activation key and/or storage memory. Voice mail resources can also be shared across the network (using One-look Networking).

**Voice Mail Service** - When callers reach your mailbox, they can hear a Busy, No Answer Day or Night greeting or one of eight personalized greetings that you recorded in any language and then select a desired service or leave a message. A mailbox can be setup to automatically forward messages to a back up mailbox, if desired.

**Automated Attendant (AA) Service** - Answers incoming calls and routes the callers to the appropriate extension or department. There are 100 AA greetings that can be recorded and the system provides numerous multi-set AA trees.

**Custom Service / Automated Attendant (AA)** - Give callers one-digit access to department extensions, special announcements, and other information. You can also record the menus in any language you want, letting callers choose the language they want to listen to. Callers select the desired extension – if the extension is busy or the intended party does not answer in time; the caller is given various options:

- Record a Message
- Transfer to Any Extension
- Page the Intended Party via the Audio Paging System
- Notify the Intended Party via Pager
- Transfer to the Company Receptionist
- Transfer to an Outside Telephone Number
- Transfer to Another Custom Service (AA)

**Personal Custom Service / Automated Attendant (AA)** - The system allows a subscriber to set the following Custom Services in the personal greeting:

- Transfer to Mailbox
- Voice Mail Service
- Transfer to Extension
- Call Transfer Service
- Transfer to an Outside Telephone Number (such as your cellular phone)
- Transfer to Custom Service

**Interview Service** - The voice processing system can also provide a type of “interview” service. You can record up to 10 questions and set the system up so that when someone calls, they are 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 applications, or conducting surveys.

**Message Waiting Notification** - This feature tells you when a caller has left a message in your mailbox. It can notify you in any of three ways: by lighting the “message waiting” lamp on your telephone; by sending a message to your pager, either telling you to call your mailbox or actually providing the caller’s number; or by calling you at a telephone number you specified in advance such as your cellular phone. An indicated below “E-mail Integration” with additional licensing a message can be sent to an email address with caller, message and mailbox details (attached .wav file is optional).

**Auto Configuration from the Built-in VM Server** - This greatly simplifies set up procedures by automatically creating mailboxes with extension numbers obtained from the Panasonic PBX system.

**Conversation Recording** - With two-way recording and two-way transfer record; a phone user can record conversations into their own mailbox or someone else’s. Recorded messages can also be sent to a person’s email inbox.

**DID Call Routing / Caller ID Call Routing** (must have Caller ID subscription) - This feature automatically sends calls from pre-assigned DID and Caller ID numbers to a designated mailbox, extension, or Custom Service.

**Caller Name Announcement** - The Panasonic Voice Processing Systems lets you record the names of frequent callers who have been assigned a Caller ID number. Then when one of them calls, the system will announce their name:

- When replaying a message from that person
- When transferring the message to another subscriber
- If you are paged via audio paging
- If the Call Screening function is on.

**E-mail Integration** – KXNS700 sends an e-mail to notify users when they have new fax and voice messages. Fax and voice messages can also be received as attachment files. The KXNS700 also supports IMAP4 servers, so the user can access the content of their mail boxes using a common email client that supports the IMAP4 protocol, such as Microsoft Outlook. It also offers SMTP Forwarding as another means to transfer the files.

**Call Centre ACD Application Server** - The KXNS700 includes an advanced call routing function for small to medium size call centers. This function can be used without an external CTI server. More efficient call reception enables you to effectively utilize limited resources to assist in improving customer service. Furthermore, the solutions can be expanded to suit more sophisticated call centers in combination with Voice Mail functions, the Communication Assistant and third party CTI applications.

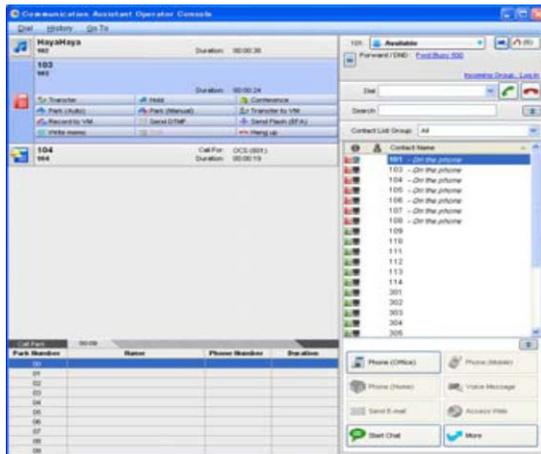
- Ring Groups, Priority Hunting and Uniform Call Distribution (UCD) with optional ACD call delivery
- Priority Routing for VIP Calls
- 1:N Ringing (Group Ringing)/Delayed Ringing
- Intercept Routing/Busy on Busy
- Call Queue Monitoring
- Listen-in by Supervisor
- Call Monitor
- Busy Override
- Wrap up timers per group or on an extension basis
- Numerous reporting and voice recording options available

The system must offer announcements to queued caller's indicating waiting position in the queue and the estimated time waiting. During an Outgoing Message, callers will also have the option to exit the queue by pressing a digit resulting in a call transfer to a preprogrammed destination.

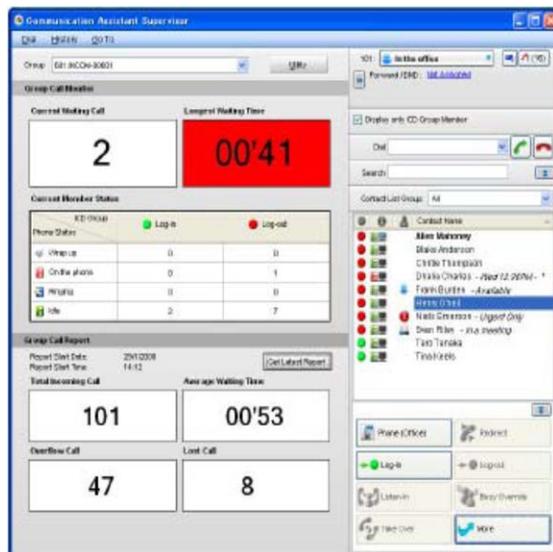
The system offers group call monitoring, displaying a number of real time selected ICD groups and member statistics from a supervisor's PC using a web portal as well as provide ACD reports on call activity for groups or group members. This function is available as a built-in application with no additional server or network appliance of any kind.



**CA Operator Console For Operators or Receptionists** - You can perform call parking and call transferring with simple drag-and-drop operations in the graphical interface. Multi-site support is also available when using One-look Networking.



**CA Supervisor For Teams or Executive Users** - Supervisors can monitor the performance of set extension groups in real-time with simple mouse operations and manage agents by listening in on telephone conversations and even taking over calls if necessary.



**CA Mobile (RCS)** - The world of work may change constantly, and you might find yourself working at your desk, in a meeting, at home or on the move, but one thing remains constant – the need to stay in contact with colleagues, customers and partners. The CA Mobile (RCS) provides flawless Presence, Voice, Video, Instant Messaging, and Image/ File Sharing communication including Peer-to-Peer Video among mobile devices delivering a business-critical solution.

**Built-in Conference Bridge** – The NS700 provides access to the bridge from any phone or optional GUI in the form of the Communication Assistant Pro. This 8 room conference bridge offers up to 32 internal and external members to be included in full conference and allows callers to dial into the bridge as well via DISA ports. Alternatively the rooms can have up to 32 members as listen only with a push-to-talk function. Any digital, wireless or IP phone set to auto answer can be engaged in a “paging” operation utilizing this conference bridge. The system provides 32 conference channels for these operations.

**High Definition Voice Conference** - With the various voice processing technologies of the UT and NT series IP phones and the KXNT700 IP Voice conferencing phone, an IP network can be used to perform low cost and high audio quality voice conferences.

### **IP Conferencing Phone KXNT700**



- Full duplex acoustic echo-canceller
- Conference recording with SD Memory Card
- Speech speed conversion
- Power-over-Ethernet (PoE)
- Conferencing phone manager application (Simple video conferencing system with Panasonic Network Camera)
- Optional Extended Microphones

## Terminal Line Up

Various terminals are available to meet the needs of your office environment.

### SIP Phones

The UT670 Executive-style SIP Telephone enhances personal communications using excellent HD quality audio and combines low power consumption with easy access to powerful supporting features.

#### KXUT670 Smart Desk Top Phone

Advanced touch-screen interface  
7-inch touch-screen display  
Programmable (JAVA, html and Adobe flash)  
High quality wideband voice (handset, headset and speaker phone)  
High quality HD video (h.264 / 720p)  
2 Gigabit Ethernet ports, PoE or AC Adaptor  
Green (low standby power consumption)



### Proprietary IP Phones

These terminals provide enhance feature functionality outside the SIP protocol.

#### KXNT543

3-Line Backlit LCD Display  
13 Fixed Function Keys, Navigator Key and 4 Softkeys  
24 Flexible CO Buttons  
High quality wideband voice (handset, headset and speakerphone)  
EHS (electric hook switch)  
2 Ethernet Port (100 Base-TX)  
Power-over-Ethernet (PoE) or AC Adaptor



#### KXNT546

6-Line Backlit LCD Display  
13 Fixed Function Keys, Navigator Key and 4 Softkeys  
24 Flexible CO Buttons  
High quality wideband voice (handset, headset and speakerphone)  
EHS (electric hook switch)  
2 Ethernet Port (100 Base-TX)  
Power-over-Ethernet (PoE) or AC Adaptor



**KXNT560**

4.4 inch Monochrome Backlit LCD  
Paper label free Softkeys (8 x 3 pages for 24 programmable keys)  
High quality wideband voice (handset, headset and speakerphone)  
Full-Duplex Speakerphone  
XML support  
Built-in Bluetooth for headset  
EHS (electric hook switch)  
2 Gigabit Ethernet ports, PoE or AC Adaptor

**KXNT551**

1-Line Backlit LCD Display  
11 Fixed Function Keys and a Directional Key  
8 Flexible CO Buttons  
High quality wideband voice (handset, headset and speakerphone)  
Full-Duplex Speakerphone  
2 Gigabit Ethernet ports, PoE or AC Adaptor

**KXNT553**

3-Line Backlit LCD Display  
13 Fixed Function Keys, Navigator Key and 4 Softkeys  
24 Flexible CO Buttons  
High quality wideband voice (handset, headset and speakerphone)  
Full-Duplex Speakerphone  
EHS (electric hook switch)  
2 Gigabit Ethernet ports, PoE or AC Adaptor

**KXNT556**

6-Line Backlit LCD Display  
13 Fixed Function Keys, Navigator Key and 4 Softkeys  
36 Flexible CO Buttons  
High quality wideband voice (handset, headset and speakerphone)  
Full-Duplex Speakerphone  
EHS (electric hook switch)  
2 Gigabit Ethernet ports, PoE or AC Adaptor



## WIRELESS SOLUTION

Panasonic Office Communication Systems allow wireless communication over an extended range by using multiple cells stations that boots the flexibility and mobility of your wireless handset. Your handset simply does a handoff from one base station to another as you move through your facility even while on a call. Using the Wireless XDP feature 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. This non IP, non engineer solution has no impact on your company's LAN and ensures a quick, low cost deployment.

### Benefits of Wireless Telephone Integration

- Up to 128 handsets can be connected to one system
- Up to 48 base stations can be deployed offering seamless coverage throughout your entire facility
- TDM and IP base station configuration (up to 8 channels)
- Repeaters can be used to extend coverage of each base station
- Secure high quality speech reproduction and excellent reliability
- Caller ID name and number compatibility
- Programmable multiple ring patters, including vibrate mode

			
Model No.	KX-TCA385	KX-TCA285	KX-TCA185
LCD Size	1.8 inch, Backlight (Colour)	1.8 inch, Backlight (Colour)	1.8 inch, Backlight (Colour)
LCD Contrast	6 levels	6 levels	6 levels
LED	Ringer/Charge	Ringer/Charge	Ringer/Charge
Handset Phonebook (PBX)	Up to 500 Numbers	Up to 500 Numbers	Up to 500 Numbers
Call Log -Incoming/Outgoing Calls (PBX)	10/5	10/5	10/5
Flexible CO Keys	12	12	12
Soft Keys	3	3	3
Redial	Yes	Yes	Yes
Message Waiting Indication	Yes	Yes	Yes
3-Party Conferencing	Yes	Yes	Yes
DECT Paging	Yes	Yes	Yes
Bluetooth®	Yes (Built-in)	Yes (Built-in)	No
Phonebook Transfer via Bluetooth®	Yes (vCard V2.1)	Yes (vCard V2.1)	N/A
Noise Reduction	Yes	Yes	Yes
Splash and Dust Resistant	IP65	N/A	N/A
Speaker Phone (Full Duplex)	Yes	Yes	Yes
Headset Port	N/A	Yes (2.5 mm mini pin jack)	Yes (2.5 mm mini pin jack)
Handset, Speaker, Headset Volume	6 levels	6 levels	6 levels
Ringtones	27	27	27
Ringer Volume	6 levels + Off	6 levels + Off	6 levels + Off
Vibrate Ring	Yes	Yes	Yes
Battery Talk/Standby Time*	Up to 13 hours/Up to 200 hours	Up to 13 hours/Up to 200 hours	Up to 11 hours/Up to 200 hours
Battery Charge Time	3 hours	3 hours	7 hours
Battery Type	Li-ion battery pack x 1	Li-ion battery pack x 1	Ni-MH AAA battery x 2
Belt Clip	Yes (Clip type is included)	Yes (Swivel type is included)	Yes (Swivel type is included)
Operating Environment	When in use	0 °C - 40 °C (32 °F - 104 °F)	0 °C - 40 °C (32 °F - 104 °F)
	When charging	5 °C - 40 °C (41 °F - 104 °F)	5 °C - 40 °C (41 °F - 104 °F)
Dimensions (Width x Depth x Height; handset on cradle, stand attached)	(Headset)	55 mm x 23 mm x 151.5 mm	48.5 mm x 17.9 mm x 127.5 mm
	(Headset on Charger)	71.5 mm x 80.5 mm x 165 mm	63 mm x 78 mm x 140 mm
Weight (with handset, handset cord and stand)	(Headset)	150 g (Belt clip is included)	88 g
	(Headset on Charger)	200 g	135 g

\*Operating time may be shorter than listed above depending on usage conditions and ambient temperature.

**The KXNS700 system is an eco-conscious product helping reduce energy consumption.**

**Less power consumption**

System power consumption is reduced by 57% in comparison to the 2009 model KXNCP1000 system.

**Eco mode**

The KXUT Series SIP phones save energy even during standby mode and while calling. By using the Eco mode, power consumption can be reduced even further.