Discover a world of benefits in one business communications solution.
An IP Platform to Deliver Business Communication

INTRODUCING THE PANASONIC KX-NS1000

In the current era Business Communications Servers should provide solutions to real world Business requirements, such as simplifying and improving communications, lowering costs and improving productivity, while flexibly adapting to the way the organization works.

The NS1000 Network Communications Server by Panasonic is designed to deliver these solutions, integrating hardware and software components in a modular way, allowing you to tailor a communications system to your specific needs.

The NS1000 is built on SIP and IP technologies, with powerful built-in Unified Collaboration and Communication components including desktop tools, voice messaging and an interactive voice response system. Partnering with a comprehensive range of terminals, accessories and applications software, ensures that systems can adapt to meet all the communication requirements of your business to support revenue growth.

With best in class, high definition voice quality and on-demand capacity enhancements, the NS1000 is the core of a powerful VoIP communications solution offering flexibility, simplicity and productivity.
Solutions

Why choose the NS1000?

Improve Customer Responsiveness
Integrated applications for call grouping and routing, ensuring the right person takes every call

Enhance Productivity
‘Presence’ - Know who is available, and how best to contact them at any time

Mobility
Wireless DECT systems and mobile phone integration means you can stay in touch, even when you’re on the move

Desktop Integration & Application Support

Scalability
Direct support for up to 1,000 users in a full transparent network and for integrated Q-SIG networks for up to 8,000 users.

A powerful Computer Telephony Interface allows the NS1000 to work with many CRM tools, maximizing access to hard-earned customer contact data.

The KX-NS1000 system is an eco-conscious product helping reduce energy consumption.

Less power consumption
System power consumption is reduced by 57% (using the Eco Mode of the KX-UT136) in comparison to the KX-NCP500.

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

<Measurement environment >
*Products: KX-NS1000 plus 90 terminals (KX-UT136), power source: AC adaptor
KX-NCP500 plus 90 terminals (KX-NT346), power source: AC adaptor
*Measurement span: 5 years
*Operating days: 240 days/year (running: 8 hours/day, waiting: 16 hours/day), holidays: 125 days/year
SIP BUSINESS ADVANTAGES

One-look Networking is a system where a single KX-NS1000 operates and provides PBX features even though two or more main units are networked. It is not necessary to provide additional servers. The system can be expanded easily via a web-based maintenance console. One-look Networking provides a maximum of 16 sites with the large capacity of KX-NS1000.

NETWORKING

The NS1000 is a fully network aware server, with a variety of options for single and multi site expansion. Units can be combined to scale up to 1,000 direct users with full transparency for both users and administrators. (up to 8,000 users across a QSIG network).

With the NS1000 system, customers can manage stand-alone and networked systems connected via an IP network from any location. The system supports both SIP and H.323 based inter-networking in addition to the traditional ISDN QSIG connectivity. For multi-site organizations, this brings the benefit of lower cost branch-to-branch communication, either by leveraging existing corporate IP Wide-Area-Networks (WANs), or using Managed VPN services from network service providers.

Create virtual teams across multiple networked sites and share resources more efficiently, through key enhancements in features such as Call Distribution, Centralized messaging, Conferencing and Mobile Integration.

When system trouble occurs
MODULAR SOLUTIONS

Based on IP networking technologies, the NS1000 combines advanced telephony features with a scalable framework of applications that have been carefully chosen and optimized for a variety of business types, whether based on a single site or distributed globally. The NS1000 makes communications simple for office workers as well as mobile, remote and home based staff, in environments as diverse as call centres and distribution centres.

Built on open technologies, the NS1000 is developer friendly, offering CSTA, TAPI, and multiplexing interfaces, with SIP communications, producing an open development environment which encourages 3rd party applications development to further enhance capabilities.

This ultimately minimizes the additional investment of new software applications. In most cases your available application can be integrated with the NS1000.

UNIFIED MESSAGING

The NS1000 gives users great flexibility for managing messaging services. Voice and fax messages can be received using the built in Unified Messaging system in a number of ways – as email attachments, through the NS1000 IMAP4 server, or using the Communication Assistant Outlook Toolbar. This means users can listen to voice messages using their phone or PC, for maximum flexibility.

COMMUNICATION ASSISTANT

Computer meets telephone: the Panasonic Communication Assistant productivity suite is a highly intuitive Unified Communications and collaboration (UCC) software solution for Microsoft Windows™, that brings together many features. Simple ‘point and click’ telephony, presence, availability, MS Outlook integration, visual voice messaging, CRM database integration and much more are combined in a single application – enhancing and simplifying communications for business telephony users.

HIGHLIGHTS:

- Easy to use Microsoft Windows™ GUI offering access to many PBX features
- Team management and collaboration features
- Integrated presence and availability, with MS Outlook™ calendar integration
- IP camera integration
- Drag and drop multi-party conferencing
- Enhanced task specific versions optimized for specialist work types
By connecting existing Panasonic PBX systems with the KX-NS1000, you can efficiently obtain expandability and flexibility for legacy lines and terminals and add IP capacity and functionality at a low cost.

Migration
By connecting the KX-NS1000 to an existing Panasonic PBX*, you can expand IP lines and terminals and utilize the Unified Messaging features of the KX-NS1000*. This is also recommended for KX-NS1000 users that want to use legacy terminals and trunks for flexible system expansion.

*1 An existing PBX refers to a Panasonic KX-TDE series, KX-NCP series, or KX-TDA100/200/600/620.
*2 You can connect a maximum of 2 existing PBXs for one KX-NS1000. A maximum of 8 existing PBXs can be connected for the entire One-look Network.

Scalability
Customers that mainly use legacy trunks (E1/PRI) but want to prepare for future IP migration can use a trunk adaptor (KX-NS8290) for the KX-NS1000 to increase the maximum number of legacy lines available and to enable the use of both legacy and IP trunks. Since the adaptor can be connected to a maximum of 16 units, trunks can be flexibly expanded according to the customer’s budget.
APPLICATIONS

Partnering your NS1000 with applications from Panasonic Software Partners is the ideal way to tailor your communication system to meet your specific business needs, improving productivity by integrating your phone system with the business software systems you already use.

Partner applications offer many ways to simplify business workflows – by accessing both desk phones and mobiles using a single number; sharing CRM database information with the phone system; controlling calls from your Microsoft Windows™ desktop and much more.

MOBILITY (MOBILE PHONE & WIRELESS DECT)

The Multi-Cell DECT System is an integrated wireless mobility solution designed specifically for use with the Panasonic NS1000. This system provides automatic hand-over between installed cell stations – enhancing coverage and giving you true communication mobility even within large premises.

* For full mobility Panasonic offers a range of handsets with full system features supported, form standard to compact to even an IP65 ruggedized handset. Please refer to our terminal brochure for more information

MOBILE PHONE INTEGRATION

Now, there is no need for customers to have multiple contact numbers for users who also use a mobile phone. The NS1000 includes all that is required to integrate mobile phones and mobile devices with your office communications network, allowing cellular phones to be used just like office extensions – making and receiving calls, using PBX short dialing codes, and even managing ICD groups is possible from mobile devices.

For improved ease of use, mobile client applications are available to configure and manage PBX features from the cellular phone, ensuring quick and simple setup.
The KX-NS1000 gives you great flexibility for managing messaging services. Voice and fax messages can be received using the built-in Unified Messaging system in a number of ways; as e-mail attachments, through the KX-NS1000 IMAP4 server, or using the Communication Assistant. This means you can listen to voice messages using a phone or PC, for maximum flexibility.

**Built-in Voice Mail**

The KX-NS1000’s built-in voice mail can handle incoming calls, record messages and conversations, and manage mailboxes all from a cellular phone. Two channel two hour voice storage is preinstalled. With activation keys the number of channels can be expanded to 24 and the recording time can be expanded to 15 hours. The recording time can be further expanded to a maximum of 1000 hours by changing the storage memory.

Voice mail resources can also be shared across the network (using One-look Networking).

- Voice Mail/Mail Box Feature
- Custom Service
- Automated Attendant
- Interview Service
- Automatic Two-way Recording for Managers

**Built-in Fax Server**

With its built-in fax server, the KX-NS1000 can receive, distribute, and send faxes. Received faxes can be saved in mail boxes and notify you via the message waiting lamp or e-mail, forwarded, printed, and downloaded.

**E-mail Integration**

KX-NS1000 sends an e-mail to notify you when you have new fax and voice messages. Fax and voice messages can also be received as attachment files. The KX-NS1000 also supports IMAP4 servers, so you can access the content of their mail boxes using a common e-mail client that supports the IMAP4 protocol, such as Microsoft Outlook.

**Simple Call Centre**

The KX-NS1000 includes an advanced call routing function for small to medium size call centres. 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 centres in combination with Voice Mail functions, the Communication Assistant and third party CTI applications.

- Uniform Call Distribution (UCD)
- 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
### Maximum Trunks

The KX-NS1000 supports the following number of trunks.

<table>
<thead>
<tr>
<th>Type</th>
<th>KX-NS1000 Stand-alone System</th>
<th>KX-NS1000 with 1 Legacy Gateway</th>
<th>KX-NS1000 One-look Networking</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Number of Trunks</td>
<td>256 ch</td>
<td>256 ch</td>
<td>256 ch</td>
</tr>
<tr>
<td>W-323</td>
<td>48 ch</td>
<td>48 ch</td>
<td>48 ch</td>
</tr>
<tr>
<td>SIP*</td>
<td>256 ch</td>
<td>256 ch</td>
<td>256 ch</td>
</tr>
<tr>
<td>PD023</td>
<td>23 ch</td>
<td>44 ch</td>
<td>92 ch</td>
</tr>
<tr>
<td>E1</td>
<td>N/A</td>
<td>48 ch</td>
<td>96 ch</td>
</tr>
<tr>
<td>Analogue</td>
<td>2 lines</td>
<td>16 lines</td>
<td>96 lines</td>
</tr>
</tbody>
</table>

*1 When using the trunk adaptor KX-NS8290, the total number including SIP, PRI, and E1 is 256 ch.

### Maximum Terminal Equipment

The following shows the number of each terminal equipment type supported by the KX-NS1000.

<table>
<thead>
<tr>
<th>Type</th>
<th>KX-NS1000 Stand-alone System</th>
<th>KX-NS1000 with 1 Legacy Gateway</th>
<th>KX-NS1000 One-look Networking</th>
</tr>
</thead>
<tbody>
<tr>
<td>Telephone</td>
<td>640</td>
<td>640</td>
<td>640</td>
</tr>
<tr>
<td>CLT</td>
<td>32</td>
<td>96</td>
<td>128</td>
</tr>
<tr>
<td>Other BPT</td>
<td>N/A</td>
<td>32</td>
<td>128</td>
</tr>
<tr>
<td>API</td>
<td>4</td>
<td>24</td>
<td>44</td>
</tr>
<tr>
<td>IP-P1*</td>
<td>256*</td>
<td>256*</td>
<td>256*</td>
</tr>
<tr>
<td>SIP Phone*</td>
<td>640</td>
<td>640</td>
<td>640</td>
</tr>
<tr>
<td>DIS Console</td>
<td>N/A</td>
<td>8</td>
<td>8</td>
</tr>
<tr>
<td>CS</td>
<td>6</td>
<td>6</td>
<td>6</td>
</tr>
<tr>
<td>IP-Interface CS (2-channel)</td>
<td>N/A</td>
<td>5</td>
<td>16</td>
</tr>
<tr>
<td>IP-Interface CS (3-channel)*</td>
<td>N/A</td>
<td>5</td>
<td>16</td>
</tr>
<tr>
<td>PS</td>
<td>512</td>
<td>512</td>
<td>512</td>
</tr>
<tr>
<td>Voice Processing System (VPSS)</td>
<td>7</td>
<td>7</td>
<td>7</td>
</tr>
<tr>
<td>Doorphone</td>
<td>17</td>
<td>17</td>
<td>17</td>
</tr>
<tr>
<td>Door Opener</td>
<td>17</td>
<td>17</td>
<td>17</td>
</tr>
<tr>
<td>External Sensor</td>
<td>17</td>
<td>17</td>
<td>17</td>
</tr>
<tr>
<td>External Relay</td>
<td>16</td>
<td>16</td>
<td>16</td>
</tr>
</tbody>
</table>

*1 KX-NT300 series and KX-NT265 (software version 2.00 or later only). *2 KX-UT Series, KX-NT700 and third party SIP phones (SIP hardphones/SIP softphones).
*3 One 8-channel PT-interface CS or IP-CS counts as 2 CSs for the total number of CSs.

### Communication Assistant (CA) Specification

<table>
<thead>
<tr>
<th>Type</th>
<th>CA Basic-Express</th>
<th>CA PRO</th>
<th>CA Operator Console</th>
<th>CA Supervisor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum users (Without CA Server/With CA Server)</td>
<td>240/1022</td>
<td>240/1022</td>
<td>128/128</td>
<td>4/128</td>
</tr>
<tr>
<td>Activation key</td>
<td>Preinstalled for 1022 users</td>
<td>Preinstalled for 1022 users</td>
<td>All-day free trial for 128 users</td>
<td>All-day free trial for 1 user</td>
</tr>
<tr>
<td>View/other extensions' presence from main menu</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Call center (Call center)</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>ICD group login/logout</td>
<td>No</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td>Listen-in/Busy override/Take over</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>ICD group supervisor</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Conference override</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Multi-site communication (Networking)</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>3rd-party CRM integration (LDAP/LTS)</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Microsoft Exchange Server integration</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Microsoft Outlook toolbar</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Tellite support</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
</tbody>
</table>

*1 Call history and presence display in Outlook are not available for Basic-Express users.

**Panasonic’s Environmental Efforts**

Panasonic aims to become the No.1 Green Innovation Company in the Electronics Industry. We believe we can integrate contribution to the environment with business growth by driving green innovation in all aspects of our business practices, and help people lead better and greener lives.