PANASONIC KX-UT SERIES SIP TERMINALS
FEATURE SHEET

ALL FROM ONE SIP Panasonic System Solutions

BROADSOFT Innovation calling.

digium Certified Asterisk Integration Partner

The Panasonic KX-UT range of SIP telephony terminals enhance personal communications through excellent HD quality audio on every phone, combined with easy access to powerful supportive features and applications. The range - from standard phones, office key-sets, executive terminals and touch-screen Smart Desk application phones - addresses all requirements. Panasonic's reputation for design, quality, reliability and care for the environment, ensures an exceptional user experience wherever the terminals are deployed - as part of a "cloud based" service or with an IP PBX - in a business environment or in the home.

KEY FEATURES

High Definition HD Voice

The KX-UT series of SIP terminals offers 'best in class' audio quality, meaning fewer repeated conversations and misheard calls. Offering Wideband High Definition voice as standard across the range, the KX-UT series offer various codecs, including G.722, G.711 and G729a. Coupled with Enhanced Echo Cancellation and an Expanded Acoustic Chamber, the KX-UT series of SIP terminals offers a superior audio experience to users over handset, speakerphone and optional headsets. The entire range features wideband compliant, hearing aid compatible handsets, and built-in, high quality speaker and microphone.

LCD Displays

Large, clear LCD displays with intuitive User Interface offer fast access to phonebooks and features.

Electronic Hook Switch (EHS)

A built in Electronic Hook Switch (Plantronics compliant) port allows the KX-UT670, KX-UT248, KX-UT133 and KX-UT136 SIP Terminals to have access to the Plantronics range of wireless headsets. This offers a range of portability and comfort as frequent users are able to move around freely, without being tied down by handsets.

ECO Friendly

Low power consumption, combined with an advanced ECO standby mode means lower energy costs. Consumption can be as low as 1 watt in ECO mode*.

Plug and Play Configuration

Extensive provisioning options, including automatic configuration via a provisioning server, means a smaller administration overhead, saving time and money. The range is certified compatible with Digium Asterisk and Broadsoft Broadworks, ensuring excellent compatibility with leading soft switch suppliers.

*KX-UT 1xx series, using AC adapter.

<table>
<tr><th></th><th>KX-UT113</th><th>KX-UT123</th><th>KX-UT133</th><th>KX-UT136</th><th>KX-UT248*</th><th>KX-UT670*</th></tr>
<tr><td colspan="7">DISPLAY</td></tr>
<tr><td>LCD Display</td><td>Monochrome Graphical</td><td>Monochrome Graphical</td><td>Monochrome Graphical</td><td>Monochrome Graphical</td><td>Graphical</td><td>Colour 262k</td></tr>
<tr><td>LCD Size</td><td colspan="3">242 x 55 pixels – 3 lines</td><td>242 x 109 pix. – 6 lines</td><td>4.4 inch</td><td>7 inch touch</td></tr>
<tr><td>LCD Contrast</td><td colspan="5">6 levels</td><td>No</td></tr>
<tr><td>LCD Backlight</td><td>None</td><td colspan="4">On/Auto/Off</td><td>15/Auto</td></tr>
<tr><td>HD Video</td><td colspan="5">No</td><td>720p</td></tr>
<tr><td colspan="7">INSTALL OPTIONS</td></tr>
<tr><td>Desk mount tilt</td><td colspan="2">No</td><td colspan="4">Yes – 2 positions</td></tr>
<tr><td>Wall mount</td><td colspan="2">KX-A432 (optional)</td><td colspan="3">KX-A433 (optional)</td><td>KX-A434 (optional)</td></tr>
<tr><td>Power adaptor</td><td colspan="5">Option - KX-A239</td><td>Option - KX-A422</td></tr>
<tr><td colspan="7">NETWORKING</td></tr>
<tr><td>Ethernet Ports</td><td>1 – 10/100</td><td colspan="3">2 – 10/100</td><td colspan="2">2 – 10/100/1000</td></tr>
<tr><td>Power over Ethernet (PoE)</td><td colspan="6">Yes</td></tr>
<tr><td>Bluetooth</td><td colspan="4">No</td><td>Yes</td><td>Optional</td></tr>
<tr><td colspan="7">AUDIO FEATURES</td></tr>
<tr><td>Handset, Speaker, Headset Volume</td><td colspan="5">8 levels (includes echo cancellation and distortion prevention)</td><td>15 levels</td></tr>
<tr><td>Ringtones</td><td colspan="6">32</td></tr>
<tr><td>Ringer Volume</td><td colspan="5">6 levels + Off</td><td>7 levels + Off</td></tr>
<tr><td>Headset Port</td><td colspan="6">2.5 mm</td></tr>
<tr><td>Electronic Hook Switch Control Port</td><td colspan="2">None</td><td colspan="4">3.5 mm Plantronics compatible</td></tr>
<tr><td>Audio Codec</td><td colspan="5">G.711, G.722, G.726, G.729a</td><td>G.711, G.722, G.729a</td></tr>
<tr><td colspan="7">KEYS</td></tr>
<tr><td>Soft Keys</td><td colspan="5">Yes - 4</td><td>Yes - screen</td></tr>
<tr><td>Programmable Keys</td><td colspan="2">0</td><td colspan="2">24</td><td>24 (3 pages of 8 keys)</td><td>24 (4 pages of 6 keys)</td></tr>
<tr><td>0-9, *, # keys</td><td colspan="5">Yes</td><td>Yes - screen keys</td></tr>
<tr><td>Navigator & Cancel Key</td><td colspan="5">Yes</td><td>On screen + menu keys</td></tr>
<tr><td colspan="7">SOFTWARE FEATURES</td></tr>
<tr><td>Phone Book (Entries)</td><td>100 – each with 5 numbers</td><td colspan="4">500 - each with 5 numbers</td><td>Depends on memory *2</td></tr>
<tr><td>Call Log Entries</td><td colspan="5">30 incoming calls + 30 outgoing calls</td><td>100 in + 100 out</td></tr>
<tr><td>Conferencing</td><td colspan="6">3 parties (within terminal – multi-party dependent on server)</td></tr>
<tr><td>XML</td><td colspan="4">From December 2011</td><td>Supported</td><td>From May 2012</td></tr>
<tr><td>Music on Hold</td><td colspan="6">Supplied by Host Service (PBX / SIP Server)</td></tr>
<tr><td colspan="7">IP FEATURES</td></tr>
<tr><td>SIP Accounts</td><td colspan="2">2</td><td colspan="2">4</td><td colspan="2">6</td></tr>
<tr><td>SIP Compatibility</td><td colspan="6">RFC 3261 Standard SIP Server, Asterisk, Broadsoft, Panasonic SIP PBX</td></tr>
<tr><td>IP Version</td><td colspan="6">IPv4</td></tr>
<tr><td>DHCP Client</td><td colspan="6">Yes</td></tr>
<tr><td>DNS</td><td colspan="6">Yes</td></tr>
<tr><td>HTTP</td><td colspan="6">Yes</td></tr>
<tr><td>HTTPS</td><td colspan="6">Yes</td></tr>
<tr><td>SNTP Client</td><td colspan="6">Yes</td></tr>
<tr><td>VLAN (802.1q)</td><td colspan="6">Yes</td></tr>
<tr><td>QoS (DiffServ)</td><td colspan="6">Yes</td></tr>
<tr><td>802.1x</td><td colspan="4">No</td><td colspan="2">No</td></tr>
<tr><td colspan="7">CONFIGURATION</td></tr>
<tr><td>Plug & Play Configuration</td><td colspan="6">Server based configuration, TR-069, Panasonic Redirect Server</td></tr>
<tr><td>Manual Configuration</td><td colspan="6">Internal web Configurator, Local (LCD based) network configuration</td></tr>
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*Specifications subject to change without notice
*2 up to 500 connected to NS1000
N.B. Due to measurement differences, all power consumption data may be subject to variation.

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