Panasonic

Enhance the Scope of Your IP Voice Communications

KX-UT670	KX-UT248	KX-UT136

KX-UT133	KX-UT123 / KX-UT113

A New Range of SIP Phones Has Arrived

The evolved KX-UT series SIP phone provides you with clear and comfortable communication.

Audio quality is important with telephones because your intentions must be conveyed using only sound. The KX-UT series of SIP phones were born to meet such needs.

By enabling high audio quality and smooth communication, you can have conversations with distant people as if they were right in front of you.

The KX-UT series provides useful communication with customers in various business scenes such as offices, call centres, small or home offices, and front desks.

Features of the KX-UT Series

Improved communication quality

Wide band voice, which supports the G.722, G.711, and G.729a audio codecs, enables you to hear each other's voice clearly for smooth communication.

Combining with a wide range of devices

Supports IP-PBXs, Asterisk, Broadsoft and CommuniGate Pro. Can be used in combination with a wide range of devices to meet customer needs.
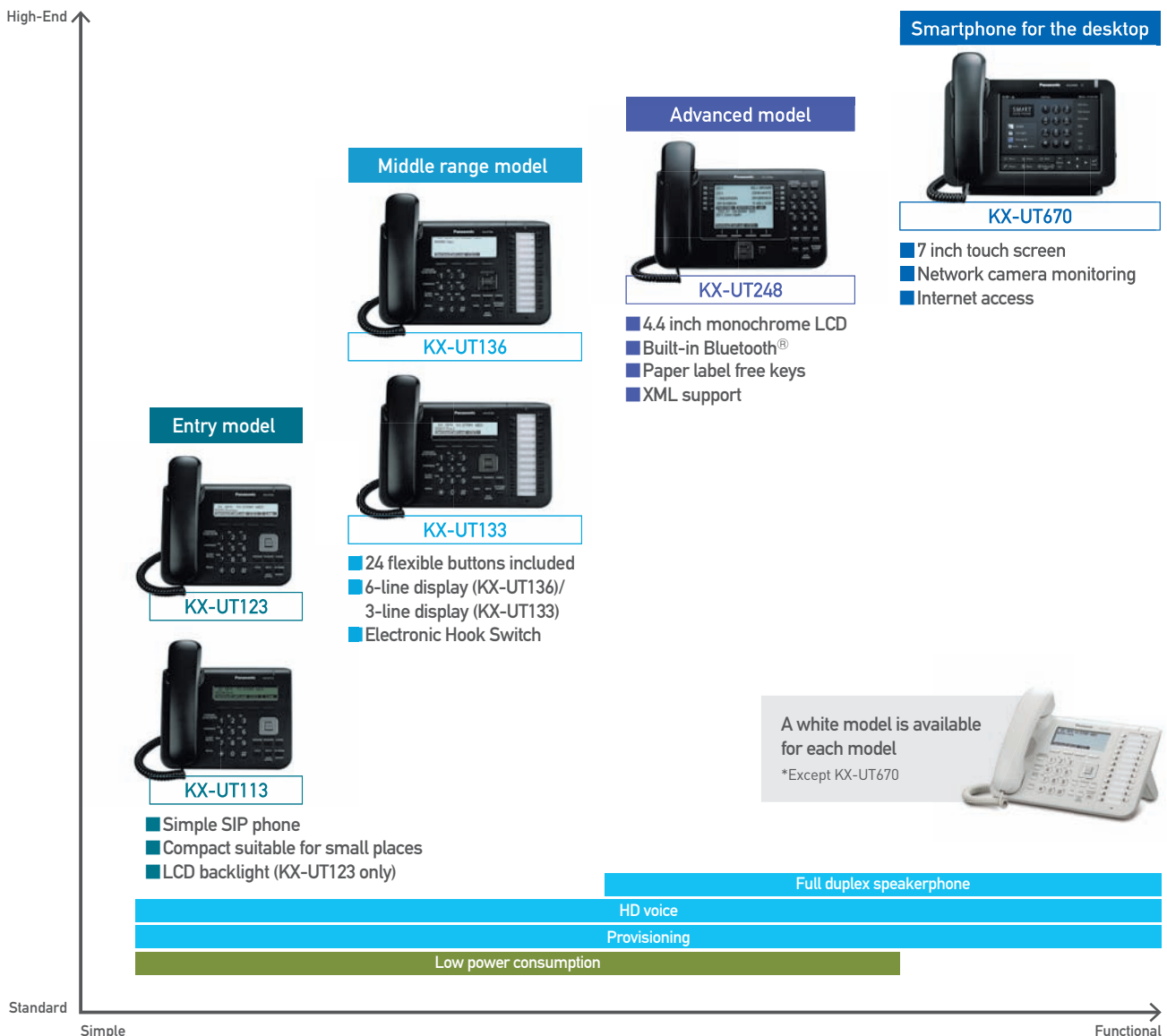
BROADSOFT
Innovation calling.

User friendly to the last detail

Designed to prioritize user friendliness, with easy-to-press buttons based on ergonomics and a display that focuses on visibility, etc.

Low power consumption

Even in standby mode or in regular usage, the KX-UT series consume less power. By enabling the ECO mode, you can further reduce power consumption.
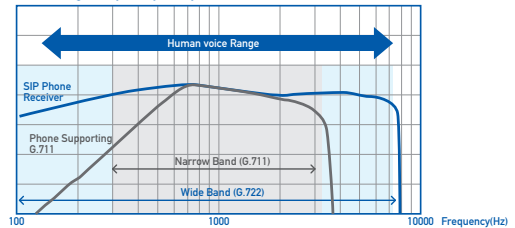
KX-UT Series Lineup

High-End

Smartphone for the desktop

Advanced model

Middle range model

KX-UT670
- 7 inch touch screen
- Network camera monitoring
- Internet access

KX-UT136

KX-UT248
- 4.4 inch monochrome LCD
- Built-in Bluetooth®
- Paper label free keys
- XML support

Entry model

KX-UT133
- 24 flexible buttons included
- 6-line display (KX-UT136)/ 3-line display (KX-UT133)
- Electronic Hook Switch

KX-UT123

A white model is available for each model
*Except KX-UT670

KX-UT113
- Simple SIP phone
- Compact suitable for small places
- LCD backlight (KX-UT123 only)

Full duplex speakerphone

HD voice

Provisioning

Low power consumption

Standard

Simple

Functional

KX-UT Series Common Features

High voice quality, easy initial setup, and reduced power consumption
Panasonic's SIP phones have received improvement upon improvement to meet
various customer needs.

Voice

Conventional phones have a narrow band voice, which is unable to adequately output low and high-pitched sounds. Since the KX-UT series supports the G.722 codec, it can cover a wide range including both low frequency and high frequency bands, enabling more comfortable conversations with a higher audio quality than conventional phones.

Receiving Frequency Response

Human voice Range

SIP Phone
Receiver

Phone Supporting
G.711

Narrow Band (G.711)

Wide Band (G.722)

100   1000   10000   Frequency(Hz)

In contrast to narrow band (G.711) that can only cover part of the human voice range, wide band (G.722) covers a wider range of the human voice.

Speaker enhanced characteristics of low frequency and high performance

The KX-UT series utilises a speaker box to provide excellent audio quality when the speakerphone. The KX-UT series incorporates a speaker box in each model to improve audio quality at low frequencies (approx. 300 Hz), reduce echoing, and reduce sound distortion due to the speaker. The utilisation of a unique speaker cone and a magnet more powerful than its predecessors also achieves improved audio frequency band sensitivity.

Unique speaker cone

Stronger magnet

Speaker box

Full duplex speakerphone (KX-UT670/KX-UT248)

The speakerphone of the KX-UT670/KX-UT248 supports "full duplex," enabling both parties to speak at the same time without their voice getting cut out. This enables everyone to have smooth conversations using the speakerphone.

Interface

KX-UT670

■ **7 inch, WVGA colour touch screen**
· High visibility with a large 800x480 pixel display
· 262,000 colours for vibrant images and video
· Touch panel enabling switching between screens and applications

■ **Convenient LED lights**
When you have a call, LED lights on both the front and back side of the phone enable you to notice with a single glance.

Back side

KX-UT670

■ **Changeable 30 / 65 degree stand**
The angle of the display can be changed according to your needs. Can be tilted at either 30 degrees or 65 degrees.

KX-UT248/KX-UT136/KX-UT133/KX-UT123/KX-UT113

■ **4.4 inch display** (KX-UT248)
A large LCD display enables ten lines of text to be easily viewed.

■ **White backlight LCD**
(KX-UT248/ KX-UT136/
KX-UT133/ KX-UT123)
A backlight makes the LCD display highly visible.

Backlight on   Backlight off

KX-UT248

■ **Easy to see label sheet**
(KX-UT136/KX-UT133)
A label sheet with a wide area that enables the names of flexible buttons, etc. to be easily read.

←23.5mm→

KX-UT136

■ **Easy to press ergonomic buttons**
We have conducted user tests to develop a button shape that is easy to press, with a concave centre that suits human fingers.

■ **Changeable 30 / 45 degree stand**
(KX-UT248/KX-UT136/KX-UT133)
The angle of the display can be changed according to your needs. Can be tilted at either 30 degrees or 45 degrees.
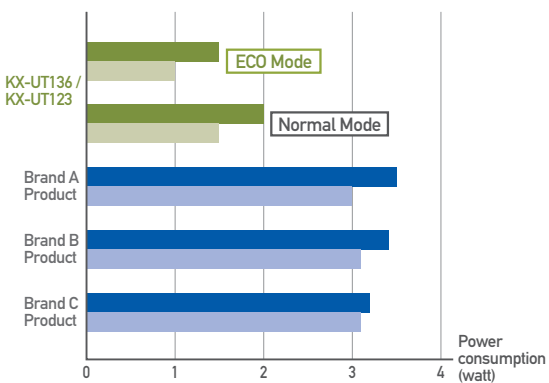
ECO

Low Power Consumption Supported models: KX-UT248/KX-UT136/KX-UT133/KX-UT123/KX-UT113

The KX-UT Series saves energy even during standby mode and while calling. By using ECO mode, power consumption can be reduced even further. This enables you to reduce power consumption compared to equivalent products from other companies to assist energy saving at your office.
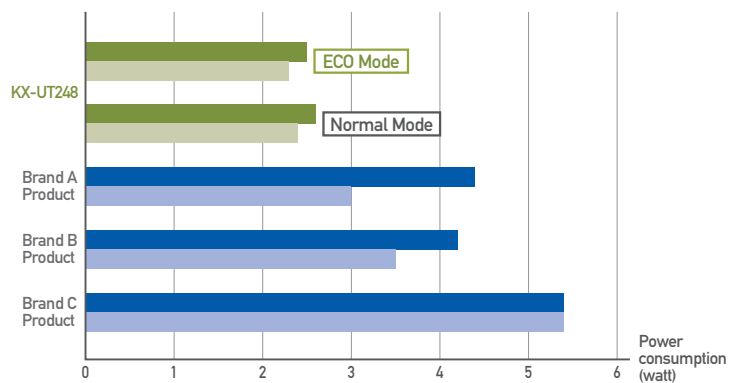
SIP Phone Power Consumption Comparison

■ While talking   ■ During stand-by

■ KX-UT136/KX-UT123 and equivalent products from other companies

KX-UT136 / KX-UT123
ECO Mode
Normal Mode

Brand A Product
Brand B Product
Brand C Product

Power consumption (watt)
0 1 2 3 4

■ KX-UT248 and equivalent products from other companies

KX-UT248
ECO Mode
Normal Mode

Brand A Product
Brand B Product
Brand C Product

Power consumption (watt)
0 1 2 3 4 5 6

*Source: Panasonic survey in March, 2012.
* Input voltage when using an AC adaptor: 220V/50Hz or 120V/60Hz, connection only with the LAN port, value when using 100BASE-T. (However, only 10BASE-T is active when using UT ECO mode.) For the KX-UT248, KX-UT136 and KX-UT123, the conditions for measuring the power consumption differ from those of the specifications on the back cover.
* When using ECO mode, the PC port cannot be used. Also, the LAN port will be 10 Mbps.

Customisation

XML support Supported models: KX-UT248/KX-UT136/KX-UT133/KX-UT123/KX-UT113

XML applications can be used to customise or control the phones. For example, you can customise the menu screen to assign soft keys, or access the address book of an LDAP server.

KX-UT248   KX-UT136/KX-UT133   KX-UT123/KX-UT113

XML application

XML server

KX-UT670

This phone combines a large easy to view display with the intuitive operability of a touch panel. The phone can also use a network camera viewer, and various applications can be developed according to user needs. In other words, this phone can be used in a wide range of situations to suit your specific needs.

KX-UT670 Features

7 inch, colour LCD touch screen

The phone includes a large 7 inch WVGA screen (800 x 480) with a high precision 262,000 colour LCD, for a clear, crisp Web viewing experience.

Web browser

Touch panel enabling intuitive operations

The LCD screen can be used as a touch panel, enabling you to easily perform operations such as entering characters. Touch operations and swipe operations provide a user friendly experience like that of a smartphone. Not only dialling, but other operations such as viewing mail and checking schedules in a calendar can be conducted smoothly.

Phone	During a call	Calendar

● The KX-UT670 comes preinstalled with various applications such as a calendar and a Web browser. The calendar can be linked with a smartphone to synchronize your schedule.*
*Schedule synchronization using the Google Calendar™ service is available. This requires a Google™ account.

Headset support

A headset jack is included for long calls. by connecting an EHS (Electronic Hook Switch) headset to the EHS jack, you can perform wireless communication.*

*Headset and EHS headset not included.

Network camera viewer

The phone can be used as a network camera viewer if used in conjunction with a Panasonic network camera.*1 For example, it can be used as a reception terminal for suitably and smoothly handling visitors while viewing them on the screen. The network camera can also be remotely operated*2 to change its angle to view what you want, and camera sensor detection can be used to automatically display the camera's video on the screen.

As a door phone for visitors

To check the status of remote offices and factories

● The network camera viewer function can be used by connecting a network camera.

● Network camera settings cannot be changed.

● There is a limit to the number of devices (KX-UT670, computers, etc.) that can view the video of a network camera at the same time. When this number is exceeded, a device may not be able to display the video of the network camera.

● If the resolution of the video output by the network camera exceeds the performance of the KX-UT670 (800 x 480 pixels), the video will not be displayed. (Example: 1280 x 960 pixel video cannot be displayed.)

*1 The following camera models can be connected (as of Nov, 2012): WV-SW396/395/355/352/316L/316/314/175/174W/172/155/152, WV-ST165/162, WV-SP306/305/302/105/102, WV-SF346/342/336/335/332/135/132, WV-SC386/385/384, WV-NW502S, WV-NP502, BL-VT164/164W, BL-VP104/104W (Panasonic).
*2 Available camera operations differ according to the camera connected.

Application development

A program development environment is provided, allowing you to develop various applications.

■ Dedicated development software (APIs and libraries) for the smart desk phone is separately provided for software developers. For details, see the following website:
http://panasonic.net/pcc/products/sipphone/products/kx_ut670/application.html

■ An SIP phone system interface and network camera system interface are included.

■ Java is supported.

■ Provided with APIs, class libraries, and wrappers.

Example Third Party Applications

Applications can be developed for use by a variety of businesses.

Hotel Phone

Orders can be placed directly from the on-screen menu.
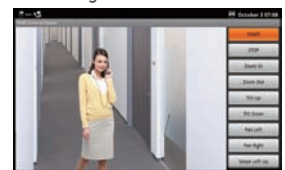
Food Delivery Services

The screen can be used to search for information about the area around the hotel.

Office Facility Control

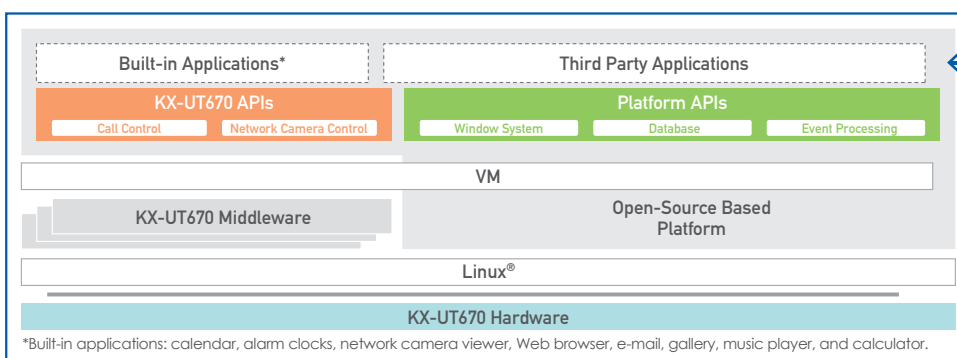The screen can be used to open or close curtains, and to turn the air conditioner on or off.

Monitoring

The network camera image can be viewed on-screen, and operating buttons can be changed as necessary.

Software Architecture for the KX-UT670

The KX-UT670 is based on open-source software.
KX-UT670 applications are developed in the same manner as those for other devices.

*Built-in applications: calendar, alarm clocks, network camera viewer, Web browser, e-mail, gallery, music player, and calculator.

KX-UT248

KX-UT248 Features

4.4 inch monochrome LCD

Includes a 10-line backlit LCD. The large screen with easy to read text enables you to check the presence status of someone at a glance.

Full duplex speakerphone

Enables you and the other party to hear each other's voice clearly, even if you speak at the same time.

Paper label free (self-labelling)

8 flexible function keys can be constantly displayed, and up to 24 numbers can be registered. Since the numbers are displayed on the screen, a paper label is not required.

Built-in Bluetooth for headsets

Includes Bluetooth for wireless calls using a supported headset.

XML customisation support

The information displayed on the LCD screen can be customised. Enables the devices to be used as an information terminal in addition to a telephone.

☐ **Retrieve connection authentication with Asterisk and Broadsoft**
☐ **HD voice (headset and speakerphone)**
☐ **Low power consumption**
☐ **Supports XML customisation**
☐ **PoE (Power over Ethernet)**
☐ **24 function keys*** * Requires setting at least 2 flexible buttons as a DN button for calling or receiving the phone.
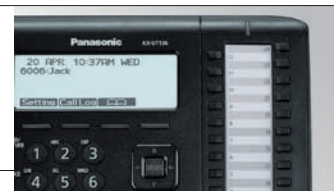
KX-UT136/ KX-UT133

Photo: KX-UT136

KX-UT136 / KX-UT133 Features

24 function keys*

Includes 24 flexible function keys for registering numbers. The one-touch presence function enables you to tell if someone is at their desk at a glance.

* Requires setting at least 2 flexible buttons as a DN button for calling or receiving the phone.

Easy operation

Includes a large LCD for high visibility. Easy operations with a user friendly button layout.

Electronic Hook Switch

Wireless communication is possible by connecting an Electronic Hook Switch (EHS) headset to the EHS jack on the side of the main unit.*

* An EHS headset is not included.

☐ **Retrieve connection authentication with Asterisk and Broadsoft**
☐ **HD voice (handset and speakerphone)**
☐ **Low power consumption**
☐ **Supports XML customisation**
☐ **PoE (Power over Ethernet)**

Difference between KX-UT136 and KX-UT133

Items	KX-UT136	KX-UT133
LCD	6-Line LCD	3-Line LCD

KX-UT123 / KX-UT113

Photo: KX-UT123

Retrieve connection authentication with Asterisk and Broadsoft

Supports Asterisk and Broadsoft for connecting to a wide range of devices. The devices to connect to can be selected to meet customer needs.

HD voice (handset and speakerphone)

Supports the G.722 codec. Enables calls with a HD voice quality that makes it seem like you are face-to-face with the other party.

Low power consumption*

Since the device automatically switches to the power saving mode when not in use, no manual operation is required. This contributes to reduced power consumption.

The ECO mode can be switched on and off.

XML customisation support

The information displayed on the LCD screen can be customised. Enables the devices to be used as an information terminal in addition to a telephone.

PoE (Power over Ethernet)

Supports PoE. If you have a power supply hub, no AC adapter is required.

Difference between KX-UT123 and KX-UT113

Items	KX-UT123	KX-UT113
Backlit LCD	Yes	No
Phone book	500	100
Ethernet port	2	1

Business Solutions

Panasonic's KX-UT series phones can be combined with servers and peripherals to be utilized in various industries.

Offices

The clear sound and user-friendly interface of the phones enable you to conduct daily telephone work smoothly. When you are away from a phone, it can be set to the ECO mode to reduce unnecessary power consumption.

Contact Centres

For work that involves long calls, such as customer support and help desks, the phone can be used in combination with a headset.

Government Offices

With application development and XML customisation, the phones can also be used as dedicated work terminals.

Example application

Main Menu | You have voice mail
Emergency | Confirmation
Voice Mail | Receive
Done

Dedicated work terminal

Visitor Reception

The KX-UT670 can be linked with a network camera to enable you check the status of visitors from your desk. An application can also be developed to enable the phone to be used as a visitor terminal for calling employees.

Example application

Department Search

Fred Jones | 000-000-0000
Jane Brown | 000-000-0000
John Wilson | 000-000-0000
Mary Robinson | 000-000-0000

Camera monitoring

Visitor Reception Terminal

Specifications

	KX-UT670	KX-UT248	KX-UT136	KX-UT133	KX-UT123	KX-UT113
Display						
LCD Display	Colour 262000	4-level grayscale graphical	Monochrome Graphical			
LCD Size	7 inch touch display	4.4 inch	242 x 109 pixels-6 lines	242 x 55 pixels – 3 lines		
LCD Contrast	N/A	6 levels				
LCD Backlight	18 levels/Auto	On/Auto/Off			N/A	
HD Video	720p	N/A				
Install Options						
Desk Mount Tilt	Yes – 2 positions				N/A	
Wall Mount	KX-A434 (optional)	KX-A433 (optional)			KX-A432 (optional)	
Power Adaptor	KX-A422 (optional)	KX-A239 (optional)				
Audio Features						
Handset, Speaker, Headset Volume	15 levels	8 levels (includes echo cancellation and distortion prevention)				
Ringtones	32					
Ringer Volume	7 levels + Off	6 levels + Off				
Audio Codec	G.711a-law / G.711μ-law / G.722 (wideband) / G.729a	G.711a-law / G.711μ-law / G.722 (wideband) / G.729a / G.726 (32K)				
HD Voice	Yes					
Speaker Phone	Yes (Full Duplex)	Yes				
Keys						
Flexible Keys	24* (4 pages of 6 keys)	24* (3 pages of 8 keys)	24*		N/A	
Software Features						
Phone Book (Entries)	Depends on memory	500			100	
Call Log Entries	100 in + 100 out	30 incoming calls + 30 outgoing calls				
Conferencing	3 parties (within terminal – multi-party dependent on server)					
XML support	No	Yes				
Music on Hold	Supplied by Host Service (PBX / SIP Server)					
Memory	50 MB	N/A				
IP Features						
SIP Accounts	6		4		2	
SIP Compatibility	RFC 3261 Standard SIP Server, Asterisk, Broadsoft, CommuniGate Pro, Panasonic SIP PBX					
IP Version	IPv4					
DHCP Client	Yes					
DNS	Yes					
HTTP	Yes					
HTTPS	Yes					
SNTP Client	Yes					
VLAN (802.1q)	Yes					
QoS (DiffServ)	Yes					
Configuration						
Plug & Play Configuration	Server based configuration, TR-069, Panasonic Redirect Server					
Manual Configuration	Internal web Configurator, Local (LCD based) network configuration					
Headset Interface						
Headset Port	2.5 mm					
Electronic Hook Switch Control Port	3.5 mm				N/A	
Bluetooth	No	Yes	No			
Network Interface						
Ethernet Ports	2				1	
Ethernet Interface	10/100/1000 Mbps		10/100 Mbps			
PoE (Power over Ethernet)	IEEE 802.3af Class 3 standard compliant		IEEE 802.3af Class 2 standard compliant			
Others						
Power Consumption	**PoE** Standby: 5.2 W (Backlight OFF) Talking: 7.0 W Max: 12.9 W **AC Adaptor** Standby: 4.6 W (Backlight OFF) Talking: 6.2 W Max: 11.5 W	**PoE** Stand-by: 3.5 W (ECO mode off), 2.3 W (ECO mode on) Talking: 4.1 W (ECO mode off), 2.5 W (ECO mode on) Max: 7.5 W **AC Adaptor** Stand-by: 4.0 W (ECO mode off), 2.2 W (ECO mode on) Talking: 4.5 W (ECO mode off), 2.7 W (ECO mode on) Max: 7.5 W	**PoE** Standby: 1.8 W (ECO mode off), 1.3 W (ECO mode on) Talking: 2 W (ECO mode off), 1.5 W (ECO mode on) Max: 6 W **AC Adaptor** Standby: 1.6 W (ECO mode off), 1 W (ECO mode on) Talking: 2 W (ECO mode off), 1.5 W (ECO mode on) Max: 6 W			
Operating Environment	0 °C - 40 °C (32 °F - 104 °F)					
Dimensions (Width x Depth x Height; handset on cradle, stand attached)	High position: 270 mm x 180 mm x 220 mm Low position: 270 mm x 192 mm x 170 mm	High position: 267 mm x 170 mm x 180 mm Low position: 267 mm x 187 mm x 155 mm			205 mm x 160 mm x 170 mm	
Weight (with handset, handset cord and stand)	1300 g	1130 g	1120 g	1120 g	870 g	860 g

* Requires setting at least 2 flexible buttons as a DN button for calling or receiving the phone.

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