

Information

OpenStage HFA/SIP

The Open Unified Communications telephones.

OpenStage is a new generation of phones which sets the benchmark for open and unified communications.

These stylish devices provide an intuitive and engaging communication experience, incorporating innovative features.

OpenStage is the prelude to a new era of high quality and user-oriented communications solutions that, through their design concept, sustainably protect the environment and are distinguished by high energy efficiency.

Communication for the open minded

Siemens Enterprise Communications
www.siemens-enterprise.com

SIEMENS

Cutting-edge

IP phone models

The OpenStage IP (HFA/SIP) phone family comprises the following models:

- OpenStage 5 (SIP only) (ice blue or lava)
- OpenStage 15 (ice blue or lava)
- OpenStage 20 E (ice blue or lava)
- OpenStage 20 (ice blue or lava)
- OpenStage 40 (ice blue or lava)
- OpenStage 60 (ice blue or lava)
- OpenStage 80 (silver-blue metallic)



The **OpenStage 15 SIP**, **OpenStage 20 SIP** and **OpenStage 40 SIP** telephones have been certified with the German BLUE ANGEL label (valid from software version V2R2).

THE BLUE ANGEL is the first and oldest environment-related label for products and services.

The proprietor of this environmental label is the German Federal Ministry for the Environment, Nature Protection and Reactor Safety.

Siemens Enterprise Communications is the first company to fulfill the high standards of THE BLUE ANGEL in protecting the environment and the climate with its VoIP telephones. That is achieved by high energy efficiency, efficient use of materials as well as an environmentally friendly recycling concept.

Further information can be found here:

<http://www.siemens-enterprise.com/de/about/green-enterprise.aspx>

http://www.blauer-engel.de/en/products_brands/search_products/produkttyp.php?id=559

Innovative features

The OpenStage family is intuitive in functionality and interface, integrated through interoperability with other devices, and multimodal to allow access to various services and applications.

The OpenStage family is designed to be extremely user-friendly and simplify feature implementation. Sensorial interfaces based on advanced technology solutions (touch keys, embedded color LEDs, TouchSlider for volume control and TouchGuide navigator) as well as large, tiltable, backlit color graphical displays in TFT technology facilitate user interaction.

Soft-labeled (paperless phone) touch sensor keys can be easily programmed for specific phone functions, line/feature access or speed dial by name. An ideal solution for office applications where mobility and flexibility are important factors.

Experience ...
AudioPresence™



OpenStage SIP/HFA phones offer Best-In-Class High Definition Voice – **AudioPresence™ HD**.

AudioPresence™ HD ensures that all OpenStage SIP/HFA phone users can get an immersive audio experience for voice calls and audio conferences. AudioPresence™ HD is provided across the entire portfolio, starting with the entry-level phone OpenStage 5 SIP to the executive's OpenStage 80 phone.

AudioPresence™ HD leverages the standards-based G.722 high-definition audio codec, best-in-class speaker, microphone and acoustic components, as well as advanced noise rejection and echo cancellation in all OpenStage SIP/HFA phones.

Fixed feature/function keys enable easy access to frequently used phone functions such as Drop/Release, Call Forwarding, Speaker and dedicated applications such as Phonebook, Call Log/History, Answering Machine.

OpenStage design highlights include variation of materials and colors (from molded plastic in ice blue or lava to high-end silver blue metallic lacquering and brushed aluminum).

Each OpenStage IP phone provides an integrated Ethernet switch (exception: OpenStage 5 SIP). The network is accessed by 10/100 Base-T or as a variant via Gigabit Ethernet (exceptions: OpenStage 5 SIP, OpenStage 15, and OpenStage 20 E).

All phones support 802.3af Power over LAN.

SIP and HFA phone variants

Each model of OpenStage IP phones is available as a phone variant with the open standards for SIP voice communication or with the proprietary protocol of Siemens Enterprise Communications (CorNet-IP, also known as HFA = HiPath Feature Access).

In addition to the standard-based SIP (RFC 3261) VoIP protocol, OpenStage SIP phones support even more features such as consultation, local 3-way conference, multilines and team features that allow a high degree of flexibility in your IT strategy.

The OpenStage HFA (CorNet-IP) variants provide a favorable access to the wide range of features of the HiPath platforms 3000/5000 and 4000 as well as the OpenScape Office LX/MX together with an innovative user interface.

Administration

OpenStage telephones are easy to deploy and ongoing administration is simple.

The telephones can be centrally managed as part of an IT environment.

Product family

OpenStage 5 (SIP only)

OpenStage 5 SIP is a cost-effective introduction to IP telephony providing a basic set of business features, enterprise security, as well as simple installation and operation. It fits both as an unified communications audio front-end in combination with third-party CTI applications, and as a basic phone for floors, halls, lobbies, receptions, or hospitals.

Keys

- Keypad
- 8 freely programmable keys with red LEDs
- Paper labels
- Control keys +/-

Acoustics

- Open listening
- AudioPresence™ HD

Wall-mountable



OpenStage 5
ice blue



OpenStage 5
lava

OpenStage 15

OpenStage 15 is a universal solution for efficient and professional telephony. Each succeeding model has increased feature capabilities and perceived value culminating in the high-end OpenStage 80 model targeted at top level managers and executives.

OpenStage 15 is a full-featured speakerphone with display and eight function keys with LEDs that could be used for line keys when operated as a multi-line telephone, for example.

Display

- Graphical display, 2 lines monochrome (not tiltable)

Keys

- Keypad
- 3 fixed function keys with red LEDs
- 8 freely programmable keys with red LEDs (upgradeable with Key Module)
- Paper labels
- Control keys +/-
- 3 navigation keys

Acoustics

- Hands free talking (full duplex)
- AudioPresence™ HD

Wall-mountable



OpenStage 15
ice blue



OpenStage 15
lava

OpenStage 20, 20 E

OpenStage 20 is a well equipped speakerphone. With its intuitive and interactive user interface, it is a universal solution for efficient and professional telephony.

Display

- Tilttable graphical display, 2 lines monochrome

Keys

- Keypad
- 7 fixed function keys (partly equipped with red LEDs)
- Control keys +/-
- 3-way navigator

Acoustics

- Hands free talking (full duplex, OpenStage 20 only)
- Open listening (OpenStage 20, 20 E)
- AudioPresence™ HD

Wall-mountable



OpenStage 20
ice blue



OpenStage 20
lava



OpenStage 20 E
ice blue



OpenStage 20 E
lava

OpenStage 40

Customizable for various workplace environments, OpenStage 40 is recommended for use as an office phone, e.g. for desk sharing, people working in teams or call center staff.

Display

- Tilttable graphical display, 6 lines monochrome, backlit
- Optical call alert

Keys

- Keypad
- 8 fixed function keys (partly equipped with red LEDs)
- 6 freely programmable touch keys (illuminated) with red LEDs (function, speed dial or line keys)
- Control keys +/-
- 5-way navigator

Acoustics

- Hands free talking (full duplex)
- AudioPresence™ HD

Interfaces

- Headset jack

Wall-mountable

OpenStage 60

Offers top-notch functionality and innovations, combining a maximum of usability with a clear, intuitive and sleek design. An open application platform and personalization options make this phone the first choice for boss-secretary environments and people interacting with lots of other devices.

Display

- Tilttable graphical color TFT display, 320 x 240 pixel (QVGA), backlit
- Optical call alert

Keys

- Keypad
- 6 fixed function keys (partly equipped with blue LEDs)
- 8 freely programmable touch keys (illuminated) with blue LEDs (function, speed dial or line keys)
- 6 mode keys (touch/sensor keys, illuminated) with blue or blue/white LEDs (e.g. to start applications)
- TouchSlider for volume adjustment with blue/white LEDs
- TouchGuide for navigation

Acoustics

- Hands free talking (full duplex)
- Polyphonic ring tones
- AudioPresence™ HD

Interfaces

- Headset jack
- Bluetooth
- USB Master

OpenStage 80

Premium features, materials and components turn this device into an extraordinary user experience. The best in class LCD display and an open platform for productivity enhancing applications unlock the full business potential of the phone. Open interfaces for easy synchronization with other devices, like PDA and mobile phone are specially designed with the needs of the top level manager and executive in mind.

Display

- Tilttable graphical color TFT display, 640 x 480 pixel (VGA), backlit
- Optical call alert

Keys

- Keypad
- 6 fixed function keys (partly equipped with blue LEDs)
- 9 freely programmable touch keys (illuminated) with blue LEDs (function, speed dial or line keys)
- 6 mode keys (touch/sensor keys, illuminated) with blue or blue/white LEDs (e.g. to start applications)
- TouchSlider for volume adjustment with blue/white LEDs
- TouchGuide for navigation

Acoustics

- Hands free talking (full duplex)
- Polyphonic ring tones
- AudioPresence™ HD

Interfaces

- Headset jack
- Bluetooth
- USB Master



OpenStage 40
ice blue



OpenStage 60
ice blue



OpenStage 80
silver-blue metallic



OpenStage 40
lava



OpenStage 60
lava

Accessories

For the respective OpenStage models a comprehensive range of accessories will be released separately. Here is a complete list of accessories:

OpenStage Key Module 15

- 18 additional freely programmable keys with LEDs; function, speed dial or line keys
- Paper labels
- In ice blue or lava
- For OpenStage 15/40 (up to 1 unit can be connected)



OpenStage Key Module 40, 60, 80

- 12 additional freely programmable keys with LEDs; function, speed dial or line keys (two-level)
- Large graphical display for key labeling
- In ice blue, lava or silver blue metallic
- For OpenStage 40, 60, 80 (up to 2 units can be connected)



OpenStage Busy Lamp Field 40

- 90 additional freely programmable keys with LEDs; function, speed dial or line keys
- Paper labels
- OpenStage 40 HFA only (not on HiPath 4000)
- In ice blue or lava
- For OpenStage 40 (only 1 unit can be connected)

Wall mount kit

- For OpenStage 20, 20 E, and 40 in ice blue or lava
- For OpenStage 5 SIP in lava

OpenStage Manager

For administration of OpenStage 80 and 60, the OpenStage Manager offers the following functions:

- Administer OpenStage Phone Book
 - Synchronize contacts
 - Edit Phone Book
 - Add pictures
- Manage polyphonic ring tones
- Load screen saver pictures
- Configure OpenStage phone
- Backup/restore user data

OpenStage applications

OpenStage is an extremely powerful platform for efficient business applications.

The following applications are available with OpenStage 60, 80:

- Telephony
 - Context-sensitive menus
 - Simple use of complex phone features
- Personal phone book
 - Enter up to 1,000 personal contacts with different telephone numbers
 - Combine contacts into groups
 - Add a picture to favorite contacts
- Call log/history
 - See the list of missed, forwarded, dialed and received calls
 - Dial from the call log list
- Directory access (LDAP client)
 - Query corporate directories using LDAP
 - Quick search and advanced search with various search criteria
- Graphical voicemail control
 - Message waiting indication via LED and icon on idle screen
 - Intuitive user interface with tape recorder look & feel
 - Support with HiPath Xpressions V5.0, V6.0
- Bluetooth V2.0
 - Object Push profile: Send and receive business cards/vCards
 - Headset profile: Connect a Bluetooth headset
- Application platform for customer specific workflow integration
 - OpenStage 60/80 allows the customer to integrate own XML applications using the phone as an universal input/output device

HiPath support

OpenStage SIP phones are supported by OpenScale Voice and Asterisk.

OpenStage CorNet-IP telephones can be operated on HiPath 3000/5000, HiPath 4000 and OpenScale Office LX/MX.

Access to the PSTN – acoustic/voice quality

- FCC Part 68/CS-03 (Technical Requirements for Connection of Terminal Equipment to the Telephone Network)
- TIA/EIA-810A (Transmission Requirements for Narrowband VoIP and Voice over PCM Digital Wireline Telephones)
- TBR8 (Telephony 3.1 kHz teleservices – attachment requirements for handset terminals)
- Hearing aid capability (HAC) according TIA/EIA-504A (Electronic Industries Association recommended standard RS-504 magnetic field intensity criteria for telephone compatibility with hearing aids)

Technical data

	OpenStage 5	OpenStage 15	OpenStage 20	OpenStage 40	OpenStage 60	OpenStage 80
Display						
Tiltable display (pixels, type)	–	2 lines, 205 x 41 pixels (not tiltable, fixed viewing angle of 30°)	2 lines, 205 x 41 pixels	6 lines, 240 x 128 pixels	320 x 240 pixels (QVGA) color TFT 5.7"	640 x 480 pixels (VGA) color TFT 6.4"
Backlit	–	–	–	Yes	Yes	Yes
Keys/LEDs						
Fixed function keys (pushbuttons, partly illuminated)	–	3 3 red LEDs	7 5 red LEDs	8 6 red LEDs	6 5 blue LEDs	6 5 blue LEDs
Freely programmable touch sensor keys (illuminated)	8 keys with red LEDs	8 keys with red LEDs	–	6 keys with red LEDs	8 keys with blue LEDs	9 keys with blue LEDs
Mode keys (touch sensor keys, illu- minated)	–	–	–	–	6 with blue or blue/white LEDs	6 with blue or blue/white LEDs
Optical call alert	–	–	–	red	blue	blue
Volume adjustment	+/- key	+/- key	+/- key	+/- key	TouchSlider blue/white LEDs	TouchSlider blue/white LEDs
Navigation element	–	3 navigation keys	3-way navigator	5-way navigator	TouchGuide	TouchGuide
Interfaces						
Bluetooth V2.0 (vCard support and headset profile)	–	–	–	–	Yes	Yes
Headset jack for corded/cordless headsets	–	–	–	Yes	Yes	Yes
USB Master	–	–	–	–	Yes	Yes
OpenStage Key Module	–	Yes (max. 1)	–	Yes (max. 2)	Yes (max. 2)	Yes (max. 2)
OpenStage Busy Lamp Field (not for HiPath 4000, OpenStage 40 HFA only)	–	–	–	Yes (max. 1)	–	–
Integrated Ethernet switch	– (10/100 Base-T Ethernet connec- tion only)	10/100 Base-T	10/100 Base-T or Gigabit Ethernet (optional variant) [not OpenStage 20 E]	10/100 Base-T or Gigabit Ethernet (optional variant)	10/100 Base-T or Gigabit Ethernet (optional variant)	10/100 Base-T or Gigabit Ethernet (optional variant)
Certifications						
	CE Mark, European: EMC EN55022 Class B, EN55024, EN61000-4-11, EN61000-3-2, Safety EN60950-1 UL Mark, Safety US/CAN: UL60950-1; North American EMC: FCC Part 15 (CFR 47) Class B					
Audio						
G.711 (64 kbit/s a/μ law) G.722 (64 kbit/s) G.729AB (8 kbit/s)	Yes Yes Yes	Yes Yes Yes	Yes Yes Yes	Yes Yes Yes	Yes Yes Yes	Yes Yes Yes
Open listening	Yes	Yes	Yes	Yes	Yes	Yes
Full duplex hands-free	–	Yes	Yes (not OpenStage 20 E)	Yes	Yes	Yes
Echo canceling for local echo (AEC) full duplex	–	Yes	Yes (not OpenStage 20 E)	Yes	Yes	Yes

	OpenStage 5	OpenStage 15	OpenStage 20	OpenStage 40	OpenStage 60	OpenStage 80
Applications						
See section "OpenStage applications"	–	–	–	–	Yes	Yes
Security features						
Layer 2 authentication (802.1x)	Yes	Yes	Yes	Yes	Yes	Yes
Network						
IEEE802.1Q	Yes	Yes	Yes	Yes	Yes	Yes
QoS (DIFFSERV and IEEE802.1p)	Yes	Yes	Yes	Yes	Yes	Yes
Power supply						
External power supply unit (EU, US or UK)	Yes	Yes	Yes	Yes	Yes	Yes
Power over LAN: IEEE 802.3af	Yes	Yes	Yes	Yes	Yes	Yes
PoE class	Class 0	Class 1	Class 1	Class 2	Class 3	Class 3
Consumption data after annual load cycle according to RAL-UZ 150	21.9 kWh	23.7 kWh	22.0 kWh	25.2 kWh	35.6 kWh	32.5 kWh
Technical data						
Dimensions (height x width x depth [mm])	64 x 160 x 220	70 x 240 x 221	70 x 240 x 220	70 x 270 x 220	70 x 300 x 220	70 x 300 x 220
Weight (kg)	0.606	0.783	0.834	1.068	1.245	1.435
Colors	ice blue or lava	ice blue or lava	ice blue or lava	ice blue or lava	ice blue or lava	silver blue metallic
Storage conditions	-40 °C to +70 °C (-40 °F to 158 °F)					
Operating conditions	+5 °C to +40 °C (41 °F to 104 °F)					

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