# 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 of a new era of high value in people-centric communication solutions.

**Communication for the open minded**

**SIEMENS**

# Overview of OpenStage

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, Touch-Slider 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.

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 incorporates the latest developments in leading edge acoustics to ensure delivery of the very best voice quality on the handset and speakerphone (thanks to the handset design, speaker model, housing dimensions and G.722 wideband codec). A high quality speakerphone is built in as standard in all models (exception OpenStage 20E).

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).

The OpenStage IP phone family comprises the following models:
- OpenStage 15 (ice blue or lava)
- OpenStage 20E (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)

Each model 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 CorNet-IP variants provide access to the feature rich HiPath platforms 2000, 3000, 4000, 5000 and HiPath OpenOffice EE, ME with the benefit of an intuitive user interface.

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

All phones support 802.3af Power over LAN.

OpenStage is easy to deploy and ongoing administration is simple.

OpenStage devices can be centrally managed as part of an IT environment.

OpenStage 15 E 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.

## Product family

### OpenStage 15

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)

**Wall-mountable**



OpenStage 15
ice blue



OpenStage 15
lava

## OpenStage 20, 20E

OpenStage 20 is a well equipped speakerphone. is a universal solution for efficient and professional telephony.

**Display**
- Tiltable 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, 20E)

**Wall-mountable**

## 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**
- Tiltable 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)

**Interfaces**
- Headset jack

**Wall-mountable**

## OpenStage 60 and 80

**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.

**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.

OpenStage 20
ice blue

OpenStage 20
lava

OpenStage 20E
ice blue

OpenStage 20E
lava

OpenStage 40
ice blue

OpenStage 40
lava

OpenStage 60
ice blue

OpenStage 60
lava

OpenStage 80

### Display
- OpenStage 60: Tiltable graphical color TFT display, 320 x 240 pixel (QVGA), backlit
- OpenStage 80: Tiltable graphical color TFT display, 640 x 480 pixel (VGA), back-lit
- Optical call alert

### Keys
- Keypad
- 6 fixed function keys (partly equipped with blue LEDs)
- 8 (OpenStage 60) and 9 (OpenStage 80) freely programmable touch keys (illuminated) with blue LEDs (function, speed dial or line keys)
- 6 mode keys (touch 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

### Interfaces
- Headset jack
- Bluetooth
- USB Master

## 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 (up to 1 unit can be connected)

## Wall mount kit

- In ice blue or lava
- For OpenStage 20, 20E, 40

## OpenStage Manager

For administration of OpenStage 80 and 60 the OpenStage Manager can be used:

- 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:

- Graphical Call Handling
  - 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 OpenScape Voice and Asterisk.

OpenStage CorNet IP phones are supported by HiPath 2000, HiPath 3000, HiPath 4000, HiPath 5000, HiPath OpenOffice EE and HiPath OpenOffice ME.

## Public Telephone Network Access/ acoustics/speech 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 15 | OpenStage 20 OpenStage 20E | OpenStage 40 | OpenStage 60 | OpenStage 80 |
|---|---|---|---|---|---|
| **Display** | | | | | |
| Tiltable display (pixels, type) | 2 lines, 205*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 keys (illuminated) | 8 keys with red LEDs | – | 6 keys with red LEDs | 8 keys with blue LEDs | 9 keys with blue LEDs |
| Mode keys (touch keys, illuminated) | – | – | – | 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 | TouchSlider blue/white LED | TouchSlider blue/white LED |
| Navigation element | 3 keys for navigation | 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 | 10/100 Base-T or Gigabit Ethernet (not OpenStage 20 E) (optional variant) | 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, EMC EN55022 Class B, EN55024, EN61000-4-11, EN61000-3-2,Safety EN60950-1, North America EMC (FCC) Part 15 (CFR 47) Class B, Safety UL60950-1/CSA 22.2 No950 | | | | |
| **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 |
| Open listening | Yes | Yes | Yes | Yes | Yes |
| Full duplex hands-free | Yes | Yes (not OpenStage 20 E) | Yes | Yes | Yes |

| | OpenStage 15 | OpenStage 20 OpenStage 20E | OpenStage 40 | OpenStage 60 | OpenStage 80 |
|---|---|---|---|---|---|
| Echo canceling for local echo (AEC) full duplex | Yes | Yes (not OpenStage 20 E) | Yes | Yes | Yes |
| **Applications** | | | | | |
| see section "OpenStage applications" | – | – | – | Yes | Yes |
| **Security features** | | | | | |
| Layer 2 authentication (802.1x) | Yes | Yes | Yes | Yes | Yes |
| **Network** | | | | | |
| IEEE802.1Q | Yes | Yes | Yes | Yes | Yes |
| QoS (DIFFSERV and IEEE802.1p) | Yes | Yes | Yes | Yes | Yes |
| **Power supply** | | | | | |
| External power supply unit (EU, US or UK) | Yes | Yes | Yes | Yes | Yes |
| Power over LAN: IEEE 802.3af | Yes | Yes | Yes | Yes | Yes |
| PoL class | Class 1 | Class 1 | Class 2 | Class 3 | Class 3 |
| **Technical data** | | | | | |
| Dimensions (height x breadth x length [mm]) | 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) | 0.783 | 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 | silver blue metallic |
| Storage conditions | -40 ℃ to +70 ℃ (ETSI EN300 019-2-2) | | | | |
| Operating conditions | +5 ℃ to +40 ℃ | | | | |