OpenStage HFA/SIP
Open Unified Communications telephones

OpenStage is the award-winning telephone range from Unify that sets standards for serviceability, design and reliability at the office workplace. These stylish devices provide an intuitive and top-notch communication experience including features that increase productivity, starting from the entry models up to the models for professional users.

The OpenStage telephones provide high utility value for user-oriented communication solutions. The environmentally friendly design, 'green' production processes and high energy efficiency sustainably protect the environment.

Innovative features

The functionality and user interface of the OpenStage product family have an intuitive design. The devices are capable of working together with other devices, thereby enabling access to various services and applications.

with LED backlighting make user interaction easier.

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

IP phone models

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

OpenStage 15 HFA/SIP

OpenStage 40 HFA/SIP

OpenStage 60 HFA/SIP

The main aspects of the OpenStage design include different material and color variations.

Each OpenStage IP phone provides an integrated Ethernet switch. The grid is accessed via 10/100 Base-T or optionally via Gigabit Ethernet.

All phones support IEEE 802.3af Power over Ethernet.

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 Unify (CorNet-IP, also known as HFA = HiPath Feature Access).

In addition to the SIP VoIP protocol (in accordance with RFC 3261), 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.

OpenStage 60 HFA/SIP in ice blue

The OpenStage product family is designed to be extremely user friendly and simplify feature implementation. Innovative control elements (touchkeys, embedded colored LEDs, TouchSlider for volume control and TouchGuide Navigator) as well as the large swivel graphic color TFT display

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.

Administration

OpenStage telephones are easy to deploy and ongoing administration is simple. They can be centrally managed as part of an IT environment.

The **OpenStage 15 SIP** and **OpenStage 40 SIP** telephones have been certified with the German BLUE ANGEL label (valid from software version V2R2). The **OpenStage 60 SIP** has also been certified with the German BLUE ANGEL label (valid for devices from hardware versions S30817-S7403-A101-50 (ice blue) and S30817-S7403-A103-50 (lava) produced from March 2014).

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.

Unify is the first company whose VoIP telephones fulfill the high standards of THE BLUE ANGEL in protecting the environment and the climate. This is accomplished through their high energy efficiency, the efficient use of materials and the environmentally friendly recycling strategy.

Further information can be found at:

http://www.unify.com/de/about/green-enterprise.aspx

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

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 experience an immersive audio experience during voice calls and audio conferences. AudioPresence™ HD is provided across the entire portfolio of the OpenStage SIP/HFA phones.

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.

OpenStage 15

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

Display
- Graphic display, 2 lines, monochrome (non swivel)

Keys
- Dialing keypad
- 3 fixed function keys with red LEDs
- 8 free-programmable keys with red LEDs
- Key labeling via paper inserts
- Control keys +/-
- 3 keys for navigation

Acoustics
- Handsfree (full duplex)
- AudioPresence™ HD

Interfaces
- OpenStage key modules

Wall-mountable
Can be mounted on the wall.

Colors
Ice blue or lava

OpenStage 15

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
- Additional optical call alert

Keys

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

Acoustics

- Handsfree (full duplex)
- AudioPresence™ HD

Interfaces

- Headset jack
- OpenStage key modules

Wall-mountable

Can be mounted on the wall.

Colors

Ice blue or lava

OpenStage 60

Offers first-class 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

- Tiltable graphical color TFT display, 320 x 240 pixel (QVGA), backlit (LED)
- Additional optical call alert

Keys

- Dialing keypad
- 6 fixed function keys (partly equipped with blue LEDs)
- 8 free-programmable touch/sensor 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

- Handsfree (full duplex)
- Polyphonic ring tones
- AudioPresence™ HD

Interfaces

- Headset jack
- Bluetooth V2.1
- USB host
- OpenStage key modules

Colors

Ice blue or lava

OpenStage 40

OpenStage 60

Accessories

A comprehensive range of accessories is available for the respective OpenStage models.

OpenStage Key Module 15

- 18 additional free-programmable keys with LEDs: function, speed dial, or line keys
- Key labeling via paper inserts
- In ice blue or lava
- For OpenStage 15/40 (up to 1 unit can be connected)

OpenStage Key Module 40, 60

- 12 additional free-programmable keys with LEDs: function, speed dial, or line keys (2 layers)
- Large graphical display for key labeling
- In ice blue or lava
- For OpenStage 40, 60 (up to 2 units can be connected)

OpenStage Busy Lamp Field 40 (HFA)

- 90 additional free-programmable keys with LEDs: function, speed dial or line keys
- Key labeling via paper inserts
- In ice blue or lava
- For OpenStage 40 and 60 HFA (up to 1 unit can be connected)

Further information can be found at: http://wiki.unify.com/wiki/OpenStage_Busy_Lamp_Field_40

Wall mounting kit

For OpenStage 15 and 40 in ice blue or lava.

OpenStage Manager

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

- Administer the OpenStage Phone Book:
  Synchronize contacts,
  Edit the phone book,
  Add pictures
- Administer polyphonic ring tones
- Load screen saver pictures
- Back up/restore user data

OpenStage applications

OpenStage is an extremely powerful platform for efficient business applications.

The following applications are available for the OpenStage phones[1]:

Telephony

- Graphical call handling
- Context-sensitive menus
- Simple use of complex phone features

Personal phone book

- Up to 1000 personal entries with several numbers
- Combination of contacts into groups
- Add a picture to contacts

Call log/history

- 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 CD player look & feel
- Support with OpenScape Xpressions V6.0, V7.0

Bluetooth V2.1[2]

- Object Push Profile: Send and receive business cards/vCards
- Handsfree and headset profiles

XML applications

The OpenStage 60 supports the integration of applications via its XML application platform. Further information can be found at: http://wiki.unify.com/wiki/OpenStage_XML_Applications

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1. Not all features are available on all telephones.

2. OpenStage 60 only

Video support

Video calls

The OpenStage 60 SIP supports video calls via UVC-compliant USB cameras using the H.263 codec. The basic call features (e.g. hold, retrieve, mute, and consult) support video transmission.

OpenStage Gate View

The OpenStage Gate View solution enables the transmission of video data from a monitoring camera to the display of OpenStage 60 HFA phones.

This way, a perfect video monitoring solution is provided for many situations, e.g. for monitoring of doors or parking areas.

More detailed information can be found at:
http://wiki.unify.com/wiki/openStage_Gate_View

Supported communication platforms

OpenStage HFA

The OpenStage HFA phones can be operated on:

- OpenScape Business
- HiPath 3000
- OpenScape Office
- OpenScape 4000
- HiPath 4000

OpenStage SIP

The OpenStage SIP phones can be operated on:

- OpenScape Voice
- Asterisk

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 to 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 40	OpenStage 60
Display			
Tiltable display (pixels, type)	2 lines, 205 x 41 pixels (not tiltable, fixed viewing angle of 30°)	6 lines, 240 x 128 pixels, monochrome	320 x 240 pixels (QVGA) color TFT 5.7"
Background lighting for display	–	Yes (LED)	Yes (LED)
Keys/LEDs			
Fixed function keys (pushbuttons, partly illuminated)	3 3 red LEDs	8 6 red LEDs	6 5 blue LEDs
Free-programmable keys	8 pushbuttons with red LEDs	6 sensor keys with red LEDs	8 sensor keys with blue LEDs
Mode keys (touch/sensor keys, illuminated)	–	–	6 with blue or blue/white LEDs
Additional optical call alert	–	Red	Blue
Volume adjustment	+/- keys	+/- keys	TouchSlider with blue/white LEDs
Navigation element	3 navigation keys	5-way navigator	TouchGuide
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
Open listening	Yes	Yes	Yes
Full duplex handsfree	Yes	Yes	Yes
Echo canceling for local echo (AEC) full duplex	Yes	Yes	Yes
Interfaces			
Bluetooth V2.1 (vCard Support, handsfree and headset profile)	–	–	Yes
Headset jack for corded/cordless headsets (121TR9-5*)	–	Yes	Yes
USB host	–	–	Yes
Integrated Ethernet switch	**15** 10/100 Base-T **15 G** Gigabit Ethernet	**40** 10/100 Base-T **40 G** Gigabit Ethernet	**60** 10/100 Base-T **60 G** Gigabit Ethernet
Expansions			
OpenStage key modules	Yes max. 1	Yes max. 2	Yes max. 2
OpenStage Busy Lamp Field 40 (HFA)	–	Yes max. 1	Yes max. 1
Wall mounting kit	Yes	Yes	–
Applications			
See section "OpenStage Applications"	–	–	Yes

	OpenStage 15	OpenStage 40	OpenStage 60
Security features			
Layer 2 authentication (IEEE 802.1x)	Yes	Yes	Yes
Payload encryption via SRTP	Yes	Yes	Yes
Signaling via TLS encryption	Yes	Yes	Yes
Support of digital certificates (X.509 V3)	Yes	Yes	Yes
HTTPS	Yes	Yes	Yes
Network			
LLDP-MED	Yes	Yes	Yes
QoS (DiffServ and IEEE 802.1Q)	Yes	Yes	Yes
IEEE 802.1Q	Yes	Yes	Yes
Power supply			
OpenStage power supply (country-specific models available)	Optional	Optional	Optional
Power over LAN: IEEE 802.3af	Yes	Yes	Yes
PoE class	**15** Class 1 **15 G** Class 2	**40** Class 2 **40 G** Class 3	**60** Class 3 **60 G** Class 3
Consumption data after annual load cycle according to RAL-UZ 150	22.8 kWh[1]	25.3 kWh[1]	31.7 kWh[1]
Certifications			
Europe	CE mark		
USA/Canada	NRTL mark		
Environment	German BLUE ANGEL label for the OpenStage 15, 40 and 60 SIP telephones		
Safety standards	IEC60950-1, EN60950-1 UL60950-1, CAN/CSA-C22.2 No.60950-1		
EMC standards	CISPR22 Class B, CISPR 24 EN55022 Class B, EN55024 FCC Part 15 (CFR 47) Class B		
Technical data			
Dimensions (height x width x depth [mm])	70 x 240 x 221	70 x 270 x 220	70 x 300 x 220
Weight (kg)	0.783	1.068	1.245
Colors	Ice blue or lava	Ice blue or lava	Ice blue or lava
Storage conditions	-40 °C to +70 °C (-40 °F to +158 °F)		
Operating conditions	+5 °C to +40 °C (+41 °F to +104 °F)		

1. Valid for 10/100 Mbit/s variant.

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