



Huawei eSpace U1960 Unified Gateway

Overview



Figure 1 The eSpace U1960

Huawei eSpace U1960 unified gateway (U1960 for short) is a core voice gateway in the Huawei Unified Communications (UC) solution. It works with Huawei IP terminals and UC applications to provide professional IP telephony (IPT) and UC services.

U1960 uses the SIP architecture, features high integration, and supports 1,000 users per subrack. U1960 also provides powerful networking capabilities. In the downstream direction, it supports both narrowband and broadband access, allowing for hybrid networking of analog phones and IP phones. In the upstream direction, it can connect to the public switched telephone network (PSTN) or to voice switches in private networks using digital, analog, and broadband SIP trunks.

U1960 can be quickly deployed and easily maintained with the assistance of deployment and maintenance tools, due to its simple design.

Product Highlights

High integration and impressive array of functions

- Extensive IPT services
- Built-in hi-fidelity audio conferencing, with multiple conferencing modes available
- One Number Link You (ONLY), allowing users to answer incoming calls from anywhere, at any time, in the way that users prefer
- Built-in voice mailbox, recording messages from unanswered callers so users never miss any important calls
- UC application extension

High stability and high reliability

- 99.995% reliability
- BTMF: 10 years

Effective cost control

- Number analysis and whitelist/blacklist
- 32-level customized call rights
- Password-based call barring
- Intelligent routing, saving communications costs

Quick deployment and easy maintenance

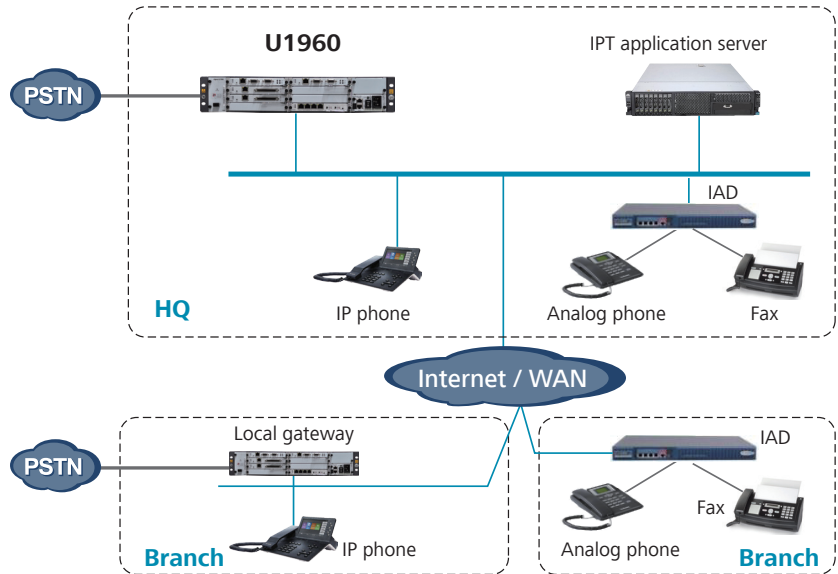
- GUI-based deployment tools for easy and quick installation
- Unified network management system, helping improve management and maintenance efficiency
- Built-in web management system for convenient operations

Typical Applications

IP-PBX

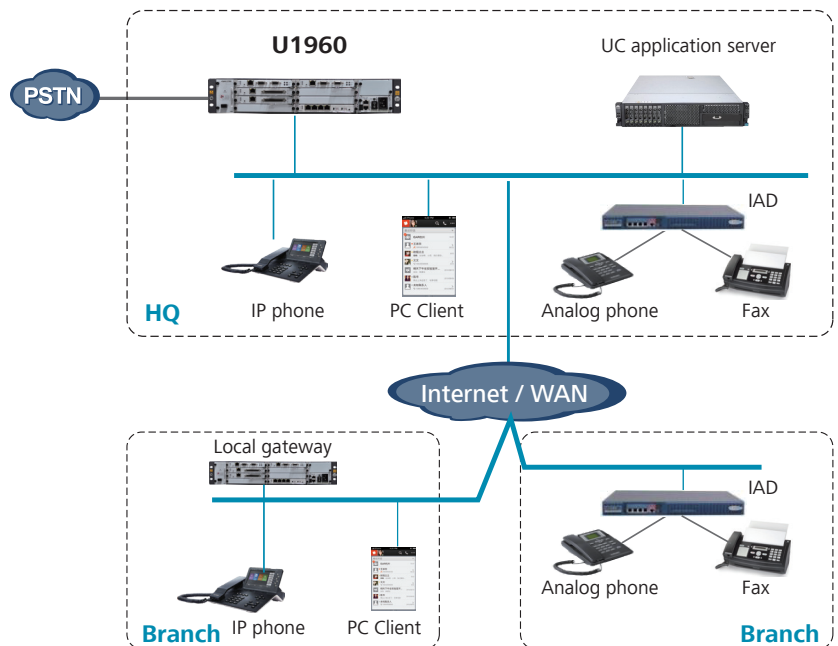
U1960 can function as an IP PBX. As shown in the following figure, a U1960 is deployed at the headquarters of an enterprise to provide call control services for users over the enterprise's network. The branches, according to their user capacities, can use different models of Huawei eSpace U1900 series unified gateways as local voice gateways. These local voice gateways support local regeneration. U1960 at the headquarters and the local voice gateways at the branches can connect to the PSTN using narrowband and broadband trunks. They can also connect to multiple types of terminals, including SIP phones, integrated access devices (IADs), analog phones, and fax machines, to provide a rich array of voice services for users.

U1960 supports two deployment modes to ensure a highly reliable IPT solution: local two-node clustering and remote disaster recovery.



UC core voice gateway

U1960 can serve as a UC core voice gateway. As shown in the following figure, a U1960 and UC application servers are deployed at the headquarters of an enterprise to provide basic telephony services and UC services, helping improve enterprise users' communication efficiency. The services supported include voice calling and voice conferencing among different types of terminals (SIP phones, analog phones, and soft terminals), presence, instant messaging (IM), and multimedia conferencing. The branches, according to their user capacities, can use different models of Huawei eSpace U1900 series unified gateways as local voice gateways. These local voice gateways support local regeneration.



Technical Specifications

Item	Specifications	
Maximum number of users	1,000(a maximum of 192 FXS ports for analog users or 1,000 SIP users)	
Terminal type	Analog phones, IP phones, video phones and soft clients	
Port	72 FXO ports or 14 E1/T1 ports	
Trunk protocol	SS7, R2, PRI, QSIG, SIP	
Codec	G.711A/μ, G.729a/b/ab, iLBC, G.722/G.722.1/G.722.2	
Number of meeting participants	A maximum of 360 meeting participants which can be allocated to 120 meeting halls (each hall can support up to 60 participants by maximum)	
Built-in voice mail	30 channels concurrently Built-in 16G SD storage card	
Power supply	AC: 100 V to 240 V, 50 Hz/60 Hz DC: -38.4 V to -60 V (typical value: -48 V) Redundancy: 1+1 backup	
Maximum power consumption	220 W (full configuration)	
Dimensions (H * W * D)	Standard 19-inch 2 U subrack 86.1 mm * 442 mm * 310 mm	
Weight	10 kg (full configuration)	
Environment	Temperature	Storage temperature: -40°C to +70°C Long-term operating temperature: 0°C to 45°C Short-term operating temperature: -5°C to +55°C
	Relative humidity	5% to 95% (without condensation)
	Dustproof	Less than 180 mg/m ³ dust in the air (Dustproof measures should be taken in the work environment)
System Reliability	99.995%	
Maintainability	Remote maintenance, automatic configuration, log collection, and Daylight Saving Time (DST)	
Manageability	Centralized/remote equipment management, signaling tracing, resource management, alarm management, and quick deployment	





Copyright © Huawei Technologies Co., Ltd. 2014. All rights reserved.

General Disclaimer

The information in this document may contain predictive statements including, without limitation, statements regarding the future financial and operating results, future product portfolio, new technology, etc. There are a number of factors that could cause actual results and developments to differ materially from those expressed or implied in the predictive statements. Therefore, such information is provided for reference purpose only and constitutes neither an offer nor an acceptance. Huawei may change the information at any time without notice.

HUAWEI TECHNOLOGIES CO., LTD.

Huawei Industrial Base
Bantian Longgang
Shenzhen 518129, P.R. China
Tel: +86-755-28780808
Huawei Enterprise hotline: 0086-400-822-9999
Version No.: M3-00031978-20140424-C-1.0
enterprise.huawei.com