

# Information

**AP 1120**

**Analog access solution**

Maximize your existing investment in analog technology while deploying state of the art VoIP technology.

**Communication for the open minded**

Siemens Enterprise Communications  
[www.siemens.com/open](http://www.siemens.com/open)

**SIEMENS**

AP 1120 is an access device equipped with two FXS ports and two 10/100 BaseT Ethernet ports. It connects analog phones or fax machines to the HiPath Real Time IP Systems via an IP network. Its second Ethernet port additionally connects a PC or a LAN with a WAN.

The AP1120 is available in 3 variants that depends on the specific software:

- AP 1120 H.323 V5.1 for HiPath 3000/5000
- AP 1120 CorNet-IP V5.1 for HiPath 4000 V2.0/V3.0
- AP 1120 SIP V5.1 for HiPath 8000 V1.0/V2.0

## Key Features

### on HiPath 3000/5000

- IP connectivity for analog phones, analog modems and faxes to the HiPath Real Time IP Systems
- PSTN-quality voice over IP networks
- Deployable in HiPath H.323 VoIP networks
- Telephony IP Signaling Protocol Selection H.323
- Remotely configurable, manageable and upgradeable
- Interoperable with equipment from leading industry vendors
- Fax over IP support, including T.38 (over UDP, for future purposes)
- Multiple codec support (G.711, G.723.1, G.729)
- Multiple country-specific tones
- Ideal ergonomical desktop solution
- Additional Ethernet port for PC or LAN connection

### on HiPath 4000

- IP connectivity for analog phones, faxes/modems to the HiPath Real Time IP Systems
- Deployable in HiPath CorNet-IP networks
- Telephony IP Signaling Protocol Selection CorNet
- Remotely configurable, manageable and upgradeable
- Interoperable with equipment from leading industry vendors
- Fax over IP support
- Real-Time-Fax Group 3 / Super G3 Fax real-time FoIP over clear channel (G.711)
- Vocoders G.711 (A-law,  $\mu$ -law)
- Multiple codec support (G.711, G.723.1, G.729)
- Multiple country-specific tones
- Ideal ergonomical desktop solution
- Additional Ethernet port for PC or LAN connection

### on OpenScope Voice

- IP connectivity for analog phones, faxes/modems to the HiPath Real Time IP Systems
- Deployable in HiPath SIP networks
- Telephony IP Signaling Protocol Selection SIP
- Remotely configurable, manageable and upgradeable
- Interoperable with equipment from leading industry vendors
- Fax over IP support
- Multiple codec support (G.711, G.723.1, G.729)
- Multiple country-specific tones
- Ideal ergonomical desktop solution
- Additional Ethernet port for PC or LAN Connection

## Protecting Investment

AP 1120 can be deployed as a desktop installation to protect customer investment in existing analog devices (phones/faxes) - one of the most expensive parts of a network. AP 1120 connects up to two phones and/or faxes to an enterprise or carrier-based VoIP network through a 10/100 BaseT Ethernet port. For enterprise, residential and Small Office Home Office (SOHO) end-users, the AP 1120 provides a simple, transparent and cost-effective migration to an IP-based telephony infrastructure without the need to discard existing analog devices.

## Applications

AP 1120 is an ideal, cost-effective solution for bringing VoIP to the desktop, connecting SOHOs to an existing enterprise IP telephony network and for connecting residential users to a carrier's or service provider's IP telephony offering. AP 1120 makes use of existing broadband access equipment to connect to any standards-based VoIP network. In addition to interfacing with HiPath Real Time Communications Solutions, the AP 1120 also interfaces with Hicom legacy PBX systems.

## Benefits

The units can dynamically detect the most commonly used IP telephony codecs and fax protocols, including T.38 (UDP) and can be remotely managed and upgraded through an innovative and user-friendly management tool - the Unit Manager Network. AP 1120 features attractive designs for either desktop or wiring closet installations. Its remote upgrade capabilities protect users from obsolescence as features evolve and new service offerings are created. Additional QoS capabilities enable AP 1120 for real time communication.

## Technical Data

### IP Telephony Protocols

H.323, CorNet-IP or SIP

### Telephony features supported

(dependent on the assigned variant)

- Caller ID,
- Call Waiting,
- Caller ID on Call Waiting,
- Call on Hold,
- Call Forward,
- Call Forward on Busy or on No Answer,
- Call Transfer with or without consultation (only passive),
- 3-Way conferencing (only passive)
- Call Transfer with 3-Way conferencing consultation (only passive),
- Early H.245 and Out-of-Band DTMF,
- H.450 basic services,
- Dynamic Jitter Buffer Manager,
- Voice Activity Detection.

### Vocoders

- G.711 (A-law,  $\mu$ -law), G.723.1, G.729a,b

### Echo cancellation

- G.168

### Silence suppression

- Silence detection/suppression and Comfort Noise Generation level software adjustable

### Network Management Protocols

- SNMPv2, H.323, TFTP, DHCP

### Real-Time Transport Protocols

- RTP per RFC 1889, RFC 1890, RTCP, RFC 2833

### Ethernet connection

- 1 RJ-45 connector, 10/100 BaseT Ethernet access
- 1 RJ-45 connector, 10/100 BaseT Ethernet access

### Analog connection

- 2 RJ-11 connectors, analog phone/fax (FXS) interface

### QoS

- QoS-802.1q (Priority tagging/VLAN), QoS-DiffServ

### Real Time Fax

- Group 3/Super G3 Fax real time FoIP over clear channel (G.711) or T.38 (UDP)

### Station line length

- Station line length can reach up to 450 m

### Operating environment

- **Operating temperature:** 0 °C to 40 °C
- **Storage temperature:** -20 °C to +70 °C
- **Humidity:** up to 85 %, non-condensing

### Power supply

- with an external 24 V DC – 12 W wall plug power supply

### Dimensions and weight

- **Height:** 5 cm (2 in.)
- **Width:** 20 cm (8 in.)
- **Depth:** 14 cm (5.5 in.)
- **Weight:** 454 g (1.2 lbs)

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