

Telephony

Voice Features

Voice Coding G.711, G.723 (5.3, 6.3 kbit/s), G.726 (16, 24, 32, 40 Kbps), G.729, iLBC (13, 33 kbit/s, 15, 2 kbit/s); (RFC 3951, ITU-T: G.711, G.723.1 Annex A, G.726, G.729 Annex A; IETF: ITU-T Q.23, Q.24, Bellcore GR.506, GR.181; ITU-T G.168-2000, 2002; ETS_300659_1,2,3; A-law, m-law coding) NAT traversal (both manually and STUN) VAD, CNG, G.168 echo cancellation

Bandwidth Requirements

Per call WAN bandwidth requirements for the following codecs (non-encrypted):

G.711a/G.711u	20 msec	84 kbps
G.726-16	20 msec	37 kbps
G.726-24	20 msec	45 kbps
G.726-32	20 msec	52 kbps
G.726-40	20 msec	60 kbps
G.729a	20 msec	29 kbps
G.723	30 msec	21 kbps
iLBC	30 msec	27 kbps

PBX Features

Call block, unconditional forwarding
Call statistics
Call routing
Auto Attendant
T.38 fax, fax relay and clear channel fax

Call Signaling

SIP on the WAN and LAN side (RFCs: 3261, 3263, 3265, 3311, 3428, 3515, 3842, 3856, 3891, 3892, 3581, draft-ietf-sip-session-timer-15, draft-ietf-sipping-dialog-package-05; Presence: RFCs: 3842, 3856, 3863, draft-ietf-sipping-dialog-package-05)
SDP (RFC 2327)
RTP (RFCs: 1889, 1890, 2833, 3389, 3550, 3551, 3555, draft-ietf-avt-rfc2833bis-05, draft-ietf-avt-rt-p-ilbc-05) in band and out of band signaling support
Fax over IP (ITU-T: T.4, T.30, T.38, V.17, V.21, V.27 ter, V.29)

POTSS signaling

Loop start
FSK and DTMF Caller ID support

Connectivity

Extensions

Up to 70 virtual extensions

System Capacity

6 simultaneous IP-PSTN calls

Premise Connections

1 Ethernet 10/100BASE T port (RJ45)

Uplink Connection

6 FXO ports to the Central Office (RJ11)
1 Ethernet 10BASE T (RJ45)

Billing

Radius Client (RFCs: 2865, 2866)

Internet

NAT address translation
STUN/NAT traversal (RFC 3489)
Firewall security via:
NAT (Network Address Translation)
Policy and service-based filtering
DHCP server on the LAN side
DHCP client on the WAN side
DNS server with forwarding functionality
SNTP (Simple Network Time Protocol) server/client for computer clock synchronization
PPPoE connection to the ISP with PAP/(MS)CHAP authentication
IP DIFFSERV for QoS
DNS support with third party
Port forwarding
Port translation

System

Management

WEB interface accessible from LAN and WAN (HTTP/HTTPS), the WAN management access can be switched off
Password control
Remote diagnostics and software upgrade
Download/restore configuration
Reset button with factory reset option

Diagnostics/Testing

LEDs: Busy, Info/Fault, FXO1, FXO2, FXO3, FXO4, FXO5, FXO6, LAN, WAN
Remote testing and VoIP diagnostics
Power-up diagnostics

Environmental

Physical Dimensions

Desktop devices, wall-mountable:
Measurements: 7.41" x 6.24" x 1.77"
(19 x 16 x 4.5 cm)
Weight: 13 ounces (360 g)

Conditions

41°F - 104°F (5°C - 40°C) operating temperature
41°F - 140°F (5°C - 60°C) storage temperature
5% - 90% non-condensing humidity

Power Supply

Input 100 - 240 VAC; 50/60 Hz: 0.5 A
Output 12.0VDC; 1.5 A

Regulatory Compliance

EMC: FCC Part 15 Class B; EN55022 Class B, EN55024;
Telecom: CTR21/TBR21

