Features

SIP/MGCP protocols
500 routing and number manipulation rules
Fax over IP using T.38 & G.711 pass-through
Dual redundant Ethernet ports
Dual DC/AC power supplies available
PSTN failover
TLS/SRTP
Auto provisioning
Remote access
Management or third-party EMS (TR-069, SNMP)
Interoperability with popular SIP servers, such as Cisco Call Manager/
CUCM, Broadsoft, Microsoft Skype for Business (Lync), Huawei IMS,
VoS, Free SWITCH and Asterisk/Elastix
Class I lightning protection

Specification

Call control	SIP/UDP and SIP/TCP (RFC3261), IMS (3GPP), MGCP (RFC3435) SSH, HTTP, HTTPS, DHCP/PPPoE client, Radius, DNS (A/SRV record), STUN
Network	
Caller ID	Bellcore/Telcordia, ETSI, BT, DTMF
Codec	G.711 (a/µ), G.729a, G.723.1, GSM, iLBC
Fax over IP Disconnect modes	
Voice-quality enhancement Call transfer Call forward	Echo cancellation (G.168-2004), Jitter buffer, Silence suppression (VAD, CNG), PLC
Call recording storage Call settings	
Blind transfer, Consultative transfer Call forward all, Call forward no answer, Call	

The AT-60XE is a reliable, cost-effective, high-performance VoIP gateway
with up to 48 FXS/FXO ports, designed to meet the needs of high-traffic
contact center and enterprise applications.
The feature-rich AT-60XE allows users to consolidate analog phones, fax
machines, and POS terminals, configurable with up-to-full concurrency over
SIP trunks and the PSTN.

Comprehensive Feature Set
As an intelligent gateway running on embedded Linux operating system,
the AT-60XE supports an advanced feature set such as call forward, call
transfer, 3-way calling, caller ID, DND, color ringback tones, call forking,
automatic routing, digit map, and much more, providing a complete and
highly reliable VoIP solution.

Carrier-class Reliability
The AT-60XE provides high-availability configurations with SIP registration
failover, load balancing and PSTN failover with optional 1+1 redundancy
of Ethernet ports and power supplies, virtually eliminating downtime.

Robust Protection against Intrusions
AT-60XE provides a rich set of features to support perimeter protection against
malicious intrusions, such as brute force logins and SIP attacks, ensuring a
high level of security in your IP telephony environment.

Remote Management and NAT Traversal
The AT-60XE includes the Cloud client, providing easy access
with NAT traversal to endpoint devices and value-added applications for
remote, real-time monitoring, maintenance, software upgrades,

forward busy Remote recording server for storage	
Routing based on the caller or callee number, Digit map, 3-way calling, Speed dialing, Do not disturb, Call forking, Color ringback tones, Hunt group, Ring cadence, Message Waiting Indicator (MWI)	

VPN client* L2TP, OpenVPN

VLAN Auto discovery via DHCP, Manual configuration

Intrusion prevention
Brute force login protection, Access list, Firewall,
SIP-allowed IP addresses, Alarm and notification*

Encryption Encrypted password/PIN

Protocol
T.38, G.711 pass-through
T.38 compliant Group 3 Fax Relay
Maximum fax rate of 33,600 bps (pass-through)
Polarity reversal, Busy tone detection, Loop current
HTTPS, SSH, TLS, SRTP

Auto provisioning
Download configuration file via TFTP/FTP/HTTP/
HTTPS, Obtaining ACS address via DHCP option
66 or redirection

troubleshooting, data analysis, alarm notification, remote and packet capture.

Hardware

CPU	1GHz
Voice DSP module	200 MHz, 2 to 6 modules
RAM	128 MB, DDR3
Flash	32 MB
H×W×D (1U)	44 × 440 × 260 mm
Weight (net)	3 kg maximum
Single/Dual AC power supplies	100 to 240V AC, 50/60 Hz, 1.2 A maximum
Power consumption	60 W
Mounting	Rack
Single/Dual DC power supplies	-36 to -72V DC, 2A
Operating	Temperature: 0 to 40°C Humidity: 10 to 90% RH (non-condensing)
Storage	Temperature: -40 to 70°C Humidity: 5 to 90% RH (non-condensing)

Receives recording streams in PCM and converts them into MP3 format. Includes management functions such as search, play, delete and backup
DTMF In-band audio, RFC2833, SIP-INFO

Redundancy **PSTN failover**	Primary-Standby, Active-Standby, Load balancing Power failure, Network failure
Device management **Remote access over TCP**	Cloud (US: YoubiquITy) EMS, TR-069 management (TR-069, TR-104 and TR-106), SNMP