



IMG58- 96Port

Max. FXS/FXO ports: 96

Max. concurrent calls: 96

Features

- SIP/MGCP protocols
- 500 routing and number manipulation rules
- Fax over IP using T.38 & G.711 pass-through
- Hot-swappable FXS/FXO interface card
- Dual redundant gigabit Ethernet ports
- Dual AC/DC power supplies available
- PSTN failover
- Auto provisioning
- Remote access via Cloud
- Management third-party Equipment Management System (TR-069, SNMP)
- Interoperability with popular SIP servers, such as Cisco CallManager, Broadsoft, Microsoft Skype for Business (Lync), Huawei IMS, and Asterisk/Elastix
- Class I lightning protection

The IMG58 series is a cost-effective, high-performance VoIP gateway with up to 96 FXS and FXO ports, targeting multi-tenant, large contact center and enterprise telephone communication applications, in which reliability and easy maintenance are critical.

Powered by innovative VoIP technology, the IMG58 allows users to apply it as an N-to-1 system capable of connecting analog phone, fax and POS machine, IP telephony, and PSTN.

Comprehensive Feature Set

As an intelligent gateway running on embedded Linux operating system, the IMG58 supports an advanced feature set such as call forward, call transfer, 3-way calling, caller ID, DND, color ringback, call forking, automatic routing, Digitmap and much more, to provide a complete and highly reliable VoIP solution applicable to most scenarios.

Carrier-class Reliability

IMG58 supports high availability configuration including SIP registration failover, load balance as well as PSTN failover, with reliable 1+1 redundancy of gigabit Ethernet ports and power supplies (optional), ensuring no loss of service and minimizing the communications downtime.

Easy Remote Management

Embedded with Cloud client, the device located behind enterprise NAT or firewall can be easily accessed for maintenance and troubleshooting purpose or by far-end applications. Real time monitoring, alarm notification, remote packet capture and software upgrading can be performed with third-party Equipment Management System connecting over TR-069 or SNMP protocol.

Investment Protection

Investment protection is a significant part of VoIP product development focus, providing better returns for the customers who invest in VoIP products by maintaining compatibility with newest VoIP technologies via software upgrading, avoiding repeated investments.

Specification

Protocols

Call control SIP/UDP and SIP/TCP (RFC3261), IMS (3GPP), MGCP (RFC3435)

Network Telnet, SSH, HTTP, HTTPS, DHCP/PPPoE client, Radius, DNS (A/SRV record), STUN

Media Processing

Caller ID Bellcore Type 1&2, ETSI, BT, NTT, and DTMF-based CID

Codec G.711 (a/μ), G.729a, G.723.1, GSM, iLBC

DTMF In-band audio, RFC2833, SIP-INFO

Hook-flash Local processing, RFC2833, SIP-INFO

Fax over IP T.38, G.711 pass-through
T.38 compliant Group 3 Fax Relay
Maximum fax rate of 33,600 bps (pass-through)

Disconnect modes Polarity reversal, Busy tone detection, Loop current

Voice quality enhancement Echo cancellation (G.168-2004), Jitter buffer, Silence suppression (VAD, CNG), PLC

Voice

Call transfer Blind transfer, Consultative transfer

Call forward Call forward all, Call forward no answer, Call forward busy

Call recording storage Remote recording server for storage

Call settings Routing based on the caller or callee number, Digitmap, 3-way calling, Speed dialing, Do not disturb, Call forking, Color ringback tone, Hunt group, Ring cadence, Message Waiting Indicator (MWI)

Security

User-defined ports SIP port, RTP port, HTTP/HTTPS port to access the Web GUI

Access list IP addresses allowed to access HTTP/HTTPS/Telnet/SSH service

VoIP SIP-allowed IP addresses

Encryption Encrypted password/PIN

Intrusion prevention Ping blocking

QoS

QoS DiffServ, TOS, 802.1P/Q VLAN

High Availability

Redundancy Primary-Standby, Active-Standby, Load balancing

Failover PSTN failover upon power or network failure

Provisioning, Administration and Maintenance

Device management Network Management System, TR-069 management (TR-069, TR-104, and TR-106), SNMP

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

Log management 8-level logs, Syslog

Data capture Port capture, Packet capture

Status and statistic Call status and history, Device status monitoring and statistics collection

Upgrade Firmware upgrade via Web GUI

Add-on Tools

Finder A tool to assist discovery of a devices IP address

Telegreeting A tool to format the uploaded IVR audio files

Recording Agent A windows-based application to collect recording files on remote storage servers and converting PCM audio into MP3 format

Hardware

CPU	1 GHz
Voice DSP module	200 MHz, 3 to 12 modules
RAM	256 MB , DDR3
FLASH	32 MB
H×W×D	85 × 440 × 300 mm
Weight (net)	6.32 kg maximum
Single/Dual AC power supplies	100 to 240 VAC, 50/60 Hz, 2A maximum
Single/Dual DC power supplies	-36 to -72 VDC, 4A
Power consumption	110 W
Mounting	Rack
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)

Product Models

With its modular design, the capacity of can be flexibly expanded by mixing up to 4 FXS/FXO interface cards, as listed below.
Interface cards: 24FXS, 24FXO, 16FXS+8FXO, 12FXS+12FXO