

## Galaxy 72P FXS Analog VoIP Gateway

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### Overview

E-Metrotel's Galaxy 72-port FXS is a multi-functional analog gateway offering seamless connectivity between IP-based telephony networks and legacy telephones, fax machines and PBX systems. The device provides up to 72 FXS ports with standard R21 interface in 1U size. It is ideally suited for small and medium businesses, call centers and multi-location environments that need VoIP services.

Galaxy 72-port FXS supports the standard SIP protocol and is compatible with leading IMS/NGN platforms and SIP-based IP telephony systems.



Galaxy 72-Port FXS Gateway

### Key Features

- ✓ High density gateway with 48/64/72 ports in 1U size
- ✓ Open-standard SIP support
- ✓ Supports IPv4 and IPv6
- ✓ 5 km maximum cabling length
- ✓ Elastix/Broadsoft Certification
- ✓ Multiple codecs: G.711A/U, G.723.1, G.729A/B, iLBC, AMR
- ✓ Fully compatible with leading IMS/NGN, SIP based IP telephony systems

## Physical Interface

### Phone Connector:

- 72 FXS with 3\* RJ21, 50 PIN
- 64 FXS with 3\* RJ21, 50 PIN
- 48 FXS with 2\* RJ21, 50 PIN

### Console:

- 1\* RS232, 115200bps

SFP: N/A, Reserved

### Network Interface:

- 2\* 10/100/1000 Base-T

## Voice & Fax

- G.711A/U law, G.723.1, G.729A/B, G.726, iLBC, AMR
- Silence Suppression
- Comfort Noise Generation (CNG)
- Voice Activity Detection (VAD)
- Echo Cancellation (G.168), with up to 128ms
- Adaptive (Dynamic) Jitter Buffer
- Hook Flash
- Programmable Gain Control
- T.38/Pass-through
- Modem/POS
- DTMF mode: Signal/RFC2833/INBAND
- VLAN 802.1P/802.1Q
- Layer3 QoS and DiffServ

## FXS

- Connector: RJ21
- Dial Mode: DTMF and Pulse
- Pulse: 10 and 20 PPS
- Caller ID: DTMF/FSK CLI Presentation
- Max Cable Length: 5 KM
- Reversed Polarity
- Programmable Call Progress Tone
- Internal Call

## VoIP

- Protocol: SIP v2.0 (UDP/TCP), RFC3261 SDP, RTP (RFC2833), RFC3262, 3263, 3264, 3265, 3515, 2976, 3311
- RTP/RTCP, RFC2198, 1889
- SIP TLS/SRTP
- RFC4028 Session Timer
- RFC3266 IPv6 in SDP
- RFC2806 TEL URI
- RFC3581 NAT, rport
- Primary/Backup SIP Server
- Outbound Proxy
- DNS SRV/ A Query/NATPR Query
- SIP Trunk
- Early Media/Early Answer
- NAT: STUN, Static/Dynamic NAT

## Supplementary Service

- Call Waiting
- Blind Transfer
- Attend Transfer
- Call Forward on Busy
- Call Forward on No Reply
- Unconditional Call Forward
- Warm/Immediately Hotline
- Call Hold
- Do-not-disturb
- 3-Way Conference
- Message Waiting Indicator

## Software Features

- Hunting Group
- Web ACL
- Telnet ACL
- Action URL
- Digitmap
- Routing Rules based Prefixes
- Caller/Called Number Manipulation

## Network Features

Network Protocol: TCP, UDP, TFTP/FTP, ARP/RARP, ICMP Ping, NTP/SNTP, HTTP/HTTPS

Static/dynamic ARP:

- IPv4/IPv6, static/dynamic IP
- DHCP Client/PPPoE

## Maintenance

- SNMP v1/v2/v3
- TR069
- Auto Provisioning
- Web/Telnet
- Configuration Backup/Restore
- Firmware Upgrade via Web
- CDR
- Syslog
- Ping/Tracert Test
- Network Capture
- Outward Test (GR909)
- NTP/Daylight Saving Time
- IVR local Maintenance
- Cloud-based Management

## Environmental

- Power Supply: 100-240VAC, 50-60 Hz
- Power Consumption
  - 48-port: 64W
  - 64-port: 72W
  - 72-port: 75W
- Operating Temperature: 0 °C~ 45 °C  
Storage Temperature: -20 °C~80 °C
- Humidity: 10%-90% Non-Condensing
- Dimensions(W/D/H): 440\*280\*44mm(1U)
- Unit Weight: 4.0 kg
- Compliance: CE, FCC