

— ANALOG VOICE GATEWAY / 16 TO 48 FXS/FXO PORTS

CERDIK ANALOG GATEWAY

The Cerdik Analog Voice Gateway supports configurations of 16, 24, 32, 40, 48 or 96 FXS/FXO ports, delivering high-performance IP voice gateway capabilities in a 1/2U standard chassis with up to 96 analog channels.

16–48 FXS/FXO Ports | SIP / TLS / SRTP | 4×Gigabit Ethernet | ARM Linux Core



UNIT — CERDIK ANALOG GATEWAY · 440 × 280 × 44 mm (1U Rack)

01 OVERVIEW

The Cerdik Analog Voice Gateway is engineered for telecom operators, enterprises, and office phone systems requiring reliable analog-to-IP connectivity. Built on an embedded multi-core ARM Linux platform, it supports 16/24/32/40/48/96 FXS/FXO ports in a compact 1U chassis, with 4× Gigabit Ethernet ports for high-availability deployment. Fully compatible with IMS/NGN platforms, IPPBX, and SIP servers, it delivers excellent voice and fax handling alongside TLS/SRTP encryption, USB recording, and flexible call routing.

02 KEY BUSINESS BENEFITS

BEN/01 Scalable Port Capacity

Configure 16, 24, 32, 40, 48 or 96 FXS/FXO ports per device — scale analog connectivity to match your deployment size without replacing hardware.

BEN/02 High-Availability Networking

4× Gigabit adaptive RJ45 ports with NAT routing and dual-port failover ensure your voice gateway stays online even during network disruptions.

BEN/03 Enterprise-Grade Security

TLS & SRTP encrypted calls, built-in security center against hacking and toll fraud, and AES configuration file encryption protect every call.

BEN/04 Easy Maintenance & Management

1.8" TFT LCD display for on-device status, user-friendly Web GUI, remote management, and online firmware update simplify day-to-day operations.

BEN/05 Universal Compatibility

Fully SIP-compatible with IMS/NGN platforms, IPPBX systems, and SIP servers — suitable for telecom operators, enterprises, and office phone systems.

03 KEY FEATURES

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| ◆ Up to 96 FXS/FXO channels per device | ◆ TLS & SRTP encrypted calls |
| ◆ 4× Gigabit RJ45 Ethernet, NAT, dual-port failover | ◆ SIP backup servers, multi-server registration |
| ◆ 1.8" TFT LCD display for easy maintenance | ◆ 3-way calls, call transfer, call waiting |
| ◆ Embedded multi-core ARM Linux architecture | ◆ Flexible call routing (time, number, source, IP) |
| ◆ Security center against hacking / toll fraud | ◆ USB full-channel recording with HTTP push |
| ◆ Up to 90% localized chipset | ◆ Remote management supported |

04 TECHNICAL SPECIFICATION

FXS		ANALOG
INTERFACE	RJ11 / RJ45 port	
CALLER ID	BELL, V23, V23_JP, DTMF	
SIGNALING	On/off hook, busy tone, polarity reversal	
RINGING	High-voltage ringing supported	
FXO		ANALOG
INTERFACE	RJ11 port	
DETECTION	Caller detection: FSK, DTMF, reverse polarity	
LINE SENSE	Delay answer, busy tone, no-current detection	
IMPEDANCE	FXO impedance matching	
PERFORMANCE FEATURES		CORE
PORTS	16 / 24 / 32 / 40 / 48 FXS/FXO ports	
DIAL PLANS	Stable performance, flexible dialing plans, user-friendly Web GUI	
PROTOCOL	Fully compatible with SIP-based VoIP systems	
SYSTEM FEATURES		SYS
TIME SYNC	RTC, NTP time sync and client sync	
ADMIN	Modify web login credentials	
FIRMWARE	Online firmware update, config backup/upload	
DIAGNOSTICS	Rich logs, auto restart, call status, language (EN/CH)	
ROUTING	Call routing, factory reset	
RECORDING	Shared folder recording	
ANALOG CAPABILITIES		AV
CALL CTRL	Volume/gain control, hold/wait/transfer	
CONF	3-way calls, dial plan support, fax (T.38/T.30), FSK/DTMF	
TUNING	Ringing setup, MWI, echo cancellation, jitter buffer	
SIP FEATURES		VOIP
ACCOUNTS	Add/edit/delete SIP accounts (batch supported)	
REGISTRATION	SIP registration: endpoint-to-gateway, gateway-to-server	
MULTI-SERVER	Accounts can register to multiple servers simultaneously	
NETWORK FEATURES		NET
MODES	Static IP, DHCP, NAT	
PROTOCOLS	HTTP/HTTPS, VPN client, network diagnostic tools	
ETHERNET	1× RJ45 WAN + 2× RJ45 LAN + 1× RJ45 IMS/WAN2 (all Gigabit)	
SECURITY		SEC
ENCRYPTION	TLS & SRTP encrypted calls	
PROTECTION	Built-in security center — anti-hacking / toll-fraud prevention	
CONFIG	AES encryption for configuration files	
SUPPORTED CODECS & PROTOCOL		CODECS
CODECS	G.711A, G.711U, G.729, G.722, iLBC	
PROTOCOL	SIP — fully compatible with IMS/NGN, IPPBX, and SIP servers	