

CD100 UNIFIED COMMUNICATION SYSTEM

A high-performance Unified Communication platform engineered for medium to large-scale enterprises.



The Cerdik CD100 is a next-generation unified communication platform engineered to meet the evolving demands of today's dynamic businesses. Designed for performance, flexibility, and security, the CD100 consolidates voice, messaging, and conferencing into a single, powerful system that simplifies enterprise communication infrastructure. Employs an Asterisk version 16 telephony operating system with open API support for seamless integration with CRM, Call Center, and other business applications.

User Capacity: Supports up to 800 users	Network Ports: 4x Gigabit Ethernet + 1 SFP Fiber Port
Concurrency: Up to 100 concurrent calls	Security Center: TLS / SRTP / HTTPS / ZRTP Encryption

01 OVERVIEW

Designed for medium to large-scale enterprises, the CD100 delivers carrier-grade voice capabilities alongside smart features such as an auto-attendant, voicemail-to-email, and fax-to-email routing. Its intuitive web interface and open API framework ensure smooth configuration changes, third-party system handshakes, and an efficient upgrade roadmap away from legacy analog equipment.

02 KEY BUSINESS BENEFITS

- BEN/01 Smart Enterprise Integration**

Open API and MQTT API protocols enable rapid, plug-and-play synchronization with leading CRM, PMS, and business intelligence toolsets.
- BEN/02 High Availability Deployment**

Dual-system hot standby functionality minimizes risks of single-point-of-failure incidents, protecting operational workflow continuity.
- BEN/03 Superior HD Voice Fidelity**

Full support for advanced codecs such as Opus and G.722 guarantees crystal-clear, high-definition communication profiles across all sessions.
- BEN/04 Corporate-Grade Collaboration**

Empowers modern office spaces with integrated 64-party bridges, automated scheduling, and targeted broadcast solutions.
- BEN/05 Advanced Security Matrix**

Guards private client voice streams through comprehensive end-to-end media encryption layers alongside active anti-toll-fraud monitors.

03 KEY FEATURES

- ◆ Supports up to 800 users and up to 100 simultaneous concurrent calls.
- ◆ Dual-port redundancy setup featuring 4x Gigabit Ethernet RJ45 ports and 1x SFP fiber line.
- ◆ Built-in Asterisk version 16 platform offering highly optimized dial plan matching rules.
- ◆ Proactive security center designed specifically for hacking prevention and real-time toll protection.
- ◆ Flexible destination routing mapped securely via user, time parameters, numbering rules, or SIP headers.
- ◆ Enterprise-grade multi-mode call recording across network shared drives, direct USB, or HTTP routes.
- ◆ Integrated 1.8" TFT LCD front-side display panel for direct maintenance checks and IP tracking.

04 TECHNICAL SPECIFICATION

FEATURES	CORE PERFORMANCE
SYSTEM & OS	Asterisk version 16 telephony OS, high-stability architecture, customizable dial plans, Web GUI.
CAPACITY	Max 800 users / extensions, 100 concurrent calls.
HARDWARE INTERFACE	Built-in 8FXO and FXS ports; high-speed M.2 (NVMe) and USB external storage slots.
DISPLAY PANEL	1.8" TFT LCD configuration displaying system IP address and channel traffic status.
TIME SYNC	Internal RTC clock, NTP client-side network tracking synchronization.
SYSTEM MAINTENANCE	Automated operation logs, scheduled auto restart, language options (EN/CH), Web GUI backup/upload config tool.
ROUTING & CALLING	Inbound/outbound rules, failover path configuration, number conversion rules, SIP header customization.
RECORDING CHANNELS	Windows network shared folders, native USB port storage, and remote HTTP call logging records.
VOICE FEATURES	Volume/gain control, ring cycles, echo cancellation filters, adaptive jitter buffers, secretary extension maps.
CALL CONTROL	Call transfer, hold state, queue configuration, line monitoring, DND maps, up to 64-party conferencing, WebRTC.
AUTO ATTENDANT	Up to 5 customizable layers of IVR mapping with multilingual system prompt matrices.
VOICE & FAX CODECS	Opus, G.711 (A-law/U-law), G.722, G.726, G.729, iLBC, GSM, VP8, H.264.
FAX OVER IP	T.38 fax protocol support, standard pass-through, automated Fax-to-Email generation.
NETWORK SPECS	SIP, TCP/UDP, RTP/RTCP, ICMP, ARP, DNS, DHCP client, PPPoE routing, LDAP, IPv6 address structures, OpenVPN® clients.
QOS PROFILES	Layer 2 and Layer 3 traffic sorting management rules.
I/O INTERFACES	4x 10/100/1000 Base-T adaptive RJ45 ethernet ports, 1x 10/100/1000 Base-T SFP uplink port.
HIGH AVAILABILITY	Dual-system Hot Standby automatic mirroring and failover rules.
SECURITY LAYERS	Active security defense center, anti-toll-fraud, TLS & SRTP session encryption, HTTPS, ZRTP profiles.
PHYSICAL DIMENSIONS	Dimensions (W/D/H): 440 x 280 x 44 mm (Standard Rack-mountable Form Factor).