

CD300 UNIFIED COMMUNICATION SYSTEM

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



The Cerdik CD300 is a next-generation unified communication platform engineered to meet the evolving demands of today's large-scale corporate environments. Designed for superior performance, flexibility, and security, the CD300 consolidates voice, messaging, and advanced multi-party conferencing into a single, robust architecture that simplifies enterprise communication infrastructure. Employs an Asterisk version 16 telephony operating system with comprehensive open API support for flawless enterprise system sync.

User Capacity: Supports up to 3,000 users	Network Ports: 4x Gigabit Ethernet + 1 SFP Fiber Port
Concurrency: Up to 300 concurrent calls	Trunking Capacity: Max 256 Built-in MLS Channels

01 OVERVIEW

Tailored specifically for enterprise scale deployment, it supports up to 3,000 users and up to 256 built-in MLS channels, alongside advanced capabilities like a built-in IP-PBX, auto-attendant, voicemail-to-email, and fax-to-email. Its user-friendly web interface and open API support empower large businesses with an effortless upgrade path and seamless integration into existing workflows, CRM, and Call Center platforms.

02 KEY BUSINESS BENEFITS

- BEN/01** **Smart Enterprise Integration**
Open API and MQTT API support allow flawless, seamless integration with CRM, Call Center, and PMS platforms.
- BEN/02** **High Availability & Reliability**
Built-in dual-system hot backup ensures maximum system uptime and uninterrupted business communications.
- BEN/03** **Superior HD Voice Quality**
Supports advanced voice codecs including Opus, G.711, G.722, G.729, and iLBC for crystal-clear, high-definition audio.
- BEN/04** **Advanced Collaboration**
Redefines productivity with built-in features like up to 64-party conferencing and scheduled auto-broadcasts.
- BEN/05** **Enhanced Privacy & Security**
Protects corporate communication via enterprise-grade media encryption and unique voice-changing capabilities for sensitive operations.

PHYSICAL SPEC	Dimensions (W/D/H): 440 x 280 x 44 mm.
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03 KEY FEATURES

- ◆ Supports up to 3,000 extensions and 300 concurrent calls stably.
- ◆ Support for up to 256 built-in MLS channels directly integrated into the core architecture.
- ◆ 4x Gigabit adaptive RJ45 Ethernet ports + 1 SFP fiber port with dual-port redundancy.
- ◆ Asterisk version 16 operating system with a highly streamlined, user-friendly Web GUI.
- ◆ Built-in security center to actively prevent external hacking and toll fraud.
- ◆ Flexible routing based on user, time, number, or advanced SIP header customization.
- ◆ Comprehensive corporate media encryption including TLS, SRTP, HTTPS, and ZRTP.
- ◆ Integrated 1.8" TFT LCD display for effortless physical maintenance and real-time status tracking.
- ◆ Advanced operation logs, voicemail/fax-to-email routing, and multi-channel call recording.

04 TECHNICAL SPECIFICATION

FEATURES	CORE PERFORMANCE
SYSTEM & OS	Asterisk version 16 OS, Stable performance, User-friendly Web GUI, flexible dial plans.
CAPACITY	Max 3,000 users, 300 concurrent calls, Max 256 MLS channels.
HARDWARE INTERFACE	M.2 (NVMe) & USB storage interfaces for corporate capacity extension.
DISPLAY	1.8" TFT LCD (Displays IP Address and Channels Status).
TIME SYNC	RTC, NTP client-side synchronization.
MAINTENANCE	Operation logs, auto restart, call status, configuration backup/upload via Web GUI, online updates.
ROUTING	Inbound/outbound routing, user/time/number-based routing, SIP header customization, failover, number conversion.
RECORDING	Shared network drive, Windows shared drive recording, USB & HTTP call recording.
AUDIO & CALL CTRL	Volume/gain control, transfer, hold, queue, monitor, broadcast, DND, caller ID/DID, 3-way calling, 64-party conference, secretary extensions, WebRTC.
IVR & AUTO ATTENDANT	Customizable Auto Attendant with up to 5 layers of IVR, Multilingual IVR.
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 Pass-through, Fax-to-Email.
NETWORK PROTOCOLS	SIP, TCP/UDP/IP, RTP/RTCP, ICMP, ARP, DNS, DHCP, NTP, HTTP/HTTPS, PPPOE, SRTP, TLS, LDAP, IPv6, OpenVPN®.
QOS	Layer 2 and Layer 3 QoS management.
PORTS (I/O)	4x 10/100/1000 Base-T RJ45 ports, 1x 10/100/1000 Base-T SFP fiber port.
HIGH AVAILABILITY	Dual-system Hot Standby redundancy.
SECURITY & ENCRYPTION	Built-in Security Center (anti-hacking/toll fraud), TLS, SRTP, HTTPS, ZRTP.
PHYSICAL SPEC	Dimensions (W/D/H): 440 x 280 x 44 mm.