## UCM6510 IP PBX Appliance





## **UCM6510 IP PBX Appliance**

The UCM6510 is an innovative IP PBX appliance for E1/T1/J1 networks that brings enterprise-grade Unified Communications and security protection to enterprises, small-to-medium businesses (SMBs), retail environments and residential settings in an easy-to-manage fashion. Powered by an advanced hardware platform and revolutionary software functionalities, the UCM6510 offers a breakthrough turnkey solution for converged voice, video, data, fax, security surveillance, and mobility applications out of the box without any extra license fees or recurring costs.

## **Feature Highlights**

- 1GHz quad-core Cortex A9 application processor, large memory (1GB DDR3 RAM, 32GB Flash) and dedicated high performance multi-core DSP array for advanced voice processing
- 1 integrated T1/E1/J1 interface, 2 PSTN trunk FXO ports, 2 analog telephone/Fax FXS ports with lifeline capability in case of power outage and unlimited SIP trunk accounts
- Hardware DSP based 128ms-tail-length carrier-grade line echo cancellation (LEC), hardware based caller ID/call progress tone and smart automated impendance matching for various countries
- Gigabit network port(s) with integrated PoE, USB, SD card; integrated NAT router with advanced QoS support
- Strong defense against malicious attacks (Fail2ban, Whitelist, Blacklist, alerts, etc.)
- Data communication via T1/E1/J1 and data-voice combined communication via T1/E1/J1 with SS7 or PRI

- Supports up to 2000 SIP endpoint registrations, up to 200 concurrent calls (up to 100 SRTP encrypted concurrent calls) and up to 64 simultaneous conference attendees
- Flexible dial plan, call routing, site peering, call recording (manual & automatic per SIP call & SIP trunk), control panel for endpoints, integrated NTP server & integrated LDAP contact directory
- Automated detection and provisioning of IP phones, video phones, ATAs, gateways, SIP cameras and other endpoints for easy deployment
- Strongest-possible security protection using SRTP, TLS and HTTPS with hardware encryption accelerator
- Redundant power supply, support for Hot Standby Clustering & High Availability to minimize system down time (pending)
- Automatic export of previous day's data; periodically cleans up user data

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## **UCM6510 Technical Specifications**

**Interfaces** 

**Analog Telephone FXS Ports** 

**PSTN Line FXO Ports** 

T1/E1/J1 Interface

**Network Interfaces** 

**NAT Router** 

**Peripheral Ports** 

**LED Indicators** 

**LCD Display** 

**Reset Switch** 

**Voice/Video Capabilities** 

Voice-over-Packet Capabilities

Voice and Fax Codecs

**Video Codecs** 

**Signaling & Control** 

**DTMF Methods** 

**Digital Signaling** 

**Provisioning Protocol &** Plug-and-Play

**Network Protocols** 

**Disconnect Methods** 

**Security** 

**Media Encryption** 

**Advanced Defense** 

**Physical** 

**Universal Power Supply** 

**Physical** 

**Dimensions** 

**Environmental** 

Mounting

**Additional Features** 

**Multi-Language Support** 

Caller ID

Polarity Reversal/Wink

**Call Center** 

**Customizable Auto Attendant** 

**Maximum Call Capacity** 

**Conference Bridges** 

**Call Features** 

Compliance

2 RJ11 ports (both with lifeline capability in case of power outage)

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1 RJ45 port

Dual Gigabit ports (switched or routed) with PoE;

A 3rd Gigabit port for Hot-Standby Clustering

Yes (user configurable)

USB, SD

Power 1/2, PoE, USB, SD, T1/E1/J1, FXS 1/2, FXO 1/2, LAN, WAN, Cluster Heartbeat

128x32 dot matrix graphic LCD with DOWN and OK buttons

Yes, long press for factory reset and short press for reboot

LEC with NLP Packetized Voice Protocol Unit, 128ms-tail-length carrier grade Line Echo Cancellation, Dynamic Jitter Buffer, Modem detection & auto-switch to G.711

G.711 A-law/U-law, G.722, G.723.1 5.3K/6.3K, G.726, G.729A/B, iLBC, GSM, AAL2-G.726-32, ADPCM; T.38

H.264, H.263, H263+

Layer 3 QoS, Layer 2 QoS

In Audio, RFC2833, and SIP INFO

PRI, SS7, MFC/R2, RBS (pending)

TFTP/HTTPS, auto-discovery & auto-provisioning of Grandstream IP endpoints via ZeroConfig (DHCP Option 66/multicast SIP SUBSCRIBE/mDNS), eventlist between local and remote trunks

TCP/UDP/IP, RTP/RTCP, ICMP, ARP, DNS, DDNS, DHCP, NTP, TFTP, SSH, HTTP/HTTPS, PPPoE, SIP (RFC3261), STUN, SRTP, TLS, LDAP, HDLC, HDLC-ETH, PPP, Frame Relay (pending)

Call Progress Tone, Polarity Reversal, Hook Flash Timing, Loop Current Disconnect, Busy Tone

SRTP, TLS, HTTPS, SSH

Fail2ban, alert events, Whitelist, Blacklist, strong password based access control

Input: 100 ~ 240VAC, 50/60Hz; Output: DC+12V, 1.5A;

Unit Weight: 2.165 kg; Package Weight: 3.012 kg

440mm(L) x 185mm(W) x 44mm(H)

Operating: 32 - 113°F / 0 ~ 45°C, Humidity 10 - 90% (non-condensing)

Storage: 14 - 140°F / -10 ~ 60°C, Humidity 10 - 90% (non-condensing)

Rack mount & Desktop

English/Simplified Chinese/Traditional Chinese/Spanish/French/Portuguese/German/Russian/Italian/Polish/Czech for Web UI; Customizable IVR/voice prompts for English, Chinese, British English, German, Spanish, Greek, French, Italian, Dutch, Polish, Portuguese, Russian, Swedish, Turkish, Hebrew, Arabic

Bellcore/Telcordia, ETSI-FSK, ETSI-DTMF, SIN 227 - BT, NTT Japan (pending)

Yes, with enable/disable option upon call establishment and termination

Multiple configurable call queues, automatic call distribution (ACD) based on agent skills/availability/ work-load, in-queue announcement

Up to 5 layers of IVR (Interactive Voice Response)

Up to 2000 registered SIP endpoints, up to 200 concurrent calls

Up to 8 bridges, up to 64 simultaneous conference attendees

Call park, call forward, call transfer, DND, DISA, ring group, pickup group, blacklist, paging/intercom etc.

FCC: Part 15 (CFR 47) Class B, Part 68

CE: EN55022 Class B, EN55024, EN61000-3-2, EN61000-3-3, EN60950-1, TBR21, RoHS

RCM: AS/NZS CISPR 22, AS/NZS CISPR 24, AS/NZS 60950, AS/ACIF S002

ITU-T K.21 (Basic Level); UL 60950 (power adapter)

T1: TIA-968-B Section 5.2.4

E1: TBR12/TBR13, E1: AS/ACIF