

UCM6100 series IP PBX Appliance



UCM6100 Series

The UCM6100 Series is an innovative IP PBX appliance designed to bring enterprise-grade Unified Communications and Security Protection features to small-to-medium businesses (SMBs) in an easy-to-manage fashion. Powered by an advanced hardware platform and revolutionary software functionalities, the UCM6100 Series 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 ARM Cortex A8 application processor, large memory (512MB DDR RAM, 4GB NAND Flash), and dedicated high performance multi-core DSP array for advanced voice processing
- Integrated 2/4/8/16 PSTN trunk FXO ports, 2 analog telephone FXS ports with lifeline capability in case of power outage, and up to 50 SIP trunk accounts
- Gigabit network port(s) with integrated PoE, USB, SD card; integrated NAT router with advanced QoS support (UCM6102 only)
- Hardware DSP based 128ms-tail-length carrier-grade line echo cancellation (LEC), hardware based caller ID/call progress tone and smart automated impedance matching for various countries
- Supports up to 500 SIP endpoint registrations, up to 60 concurrent calls (up to 40 SRTP encrypted concurrent calls), and up to 32 conference attendees
- Flexible dial plan, call routing, site peering, call recording, central control panel for endpoints, integrated NTP server, and 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

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Technical Specifications

Interfaces	
Analog Telephone FXS Ports	2 ports (both with lifeline capability in case of power outage)
PSTN Line FXO Ports	2 ports (UCM6102); 4 ports (UCM6104); 8 ports (UCM6108); 16 ports (UCM6116)
Network Interfaces	Single or Dual (UCM6102/6104) 10/100/1000Mbps RJ45 Ethernet port(s) with integrated PoE Plus (IEEE 802.3at-2009)
NAT Router	Yes (UCM6102 only)
Peripheral Ports	USB, SD
LED Indicators	Power/Ready, Network, PSTN Line, USB, SD
LCD Display	128x32 graphic LCD with DOWN & OK button
Reset Switch	Yes
Voice/Video Capabilities	
Voice-over-Packet Capabilities	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
Voice and Fax Codecs	G.711 A-law/U-law, G.722, G.723.1 5.3K/6.3K, G.726, G.729A/B, iLBC, GSM; T.38
Video Codecs	H.264, H.263, H263+
QoS	Layer 3 QoS
Signaling & Control	
DTMF Methods	In Audio, RFC2833, and SIP INFO
Provisioning Protocol & Plug-and-Play	TFTP/HTTP/HTTPS, auto-discovery & auto-provisioning of Grandstream IP endpoints via ZeroConfig (DHCP Option 66/multicast SIP SUBSCRIBE/mDNS)
Network Protocols	TCP/UDP/IP, RTP/RTCP, ICMP, ARP, DNS, DDNS, DHCP, NTP, TFTP, SSH, HTTP/HTTPS, PPPoE, SIP (RFC3261), STUN, SRTP, TLS, LADP
Disconnect Methods	Call Progress Tone, Polarity Reversal, Hook Flash Timing, Loop Current Disconnect, Busy Tone
Security	
Media	SRTP, TLS, HTTPS, SSH
Physical	
Universal Power Supply	Output: 12VDC, 1.5A; Input: 100 ~ 240VAC, 50 ~ 60Hz
Environmental	Operating: 32 ~ 104°F / 0 ~ 40°C, 10 ~ 90% (non-condensing); Storage: 14 ~ 140°F / -10 ~ 60°C
Dimensions	UCM6102/6104: 226mm (L) x 155mm (W) x 34.5mm (H) UCM6108/6116: 440mm (L) x 185mm (W) x 44mm (H)
Mounting	Wall mount & Desktop (UCM6102/6104); Rack mount & Desktop (UCM6108/6116)
Additional Features	
Multi-Language Support	English/Chinese/Spanish/French/German/Russian/Italian for Web UI; Customizable IVR to support any language
Caller ID	Bellcore/Telcordia, ETSI-FSK, ETSI-DTMF, SIN 227 – BT, NTT Japan
Polarity Reversal/ Wink	Yes, with enable/disable option upon call establishment and termination
Call Center	Multiple configurable call queues, automatic call distribution (ACD) based on agent skills/availability/busy level, in-queue announcement
Customizable Auto Attendant	Up to 5 layers of IVR (Interactive Voice Response)
Concurrent Calls	Up to 30 (UCM6102), 45 (UCM6104), or 60 (UCM6108/6116), or 66% performance if calls are SRTP encrypted
Conference Bridges	Up to 3 (UCM6102/6104) or 6 (UCM6108/6116) password-protected conference bridges allowing up to 25 (UCM6102/6104) or 32 (UCM6108/6116) simultaneous PSTN or IP participants
Call Features	Call park, call forward, call transfer, DND, ring/hunt group, paging/intercom etc.
Compliance	FCC: Part 15 (CFR 47) Class B, Part 68 CE: EN55022 Class B, EN55024, EN61000-3-2, EN61000-3-3, EN60950-1, TBR21, RoHS A-TICK: AS/NZS CISPR 22 Class B, AS/NZS CISPR 24, AS/NZS 60950, AS/ACIF S002 ITU-T K.21 (Basic Level); UL 60950 (power adapter)