

# 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

**Corporate Headquarters:**  
126 Brookline Avenue, 3rd Floor  
Boston, MA 02215, USA

**Regional Offices:** Dallas, TX, USA | Los Angeles, CA, USA | Casablanca, Morocco | Valencia, Venezuela | Hangzhou, China | Shenzhen, China

Grandstream Networks, Inc.

[www.grandstream.com](http://www.grandstream.com)

[info@grandstream.com](mailto:info@grandstream.com)

# UCM6100 series Technical Specifications

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