



Response to RFP MH 26-04

# VoIP Phone System & Equipment

Submitted 3/3/26

**Submitted to:**

**City of Madison Heights**

300 West Thirteen Mile Road, Madison Heights, MI 48071

Administrative Contact: Cheryl Rottmann | Technical Contact: Chris Morrison

**Submitted By:**

**UniVoxx**

Warren Frenkel, Co-Founder

[Warren.Frenkel@UniVoxx.com](mailto:Warren.Frenkel@UniVoxx.com) | 313-626-5000

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## Section 1 - Executive Summary

Cheryl and Chris, thank you for the opportunity to show you what UniVoxx can do for the City of Madison Heights. Managing telecom across nine locations with 200+ devices isn't just about modernizing aging equipment—it's about reliability, visibility, and having a partner who takes full ownership of your communications infrastructure. We're confident we can deliver a seamless transition from your current Cisco CUCM system and carriers to a modern, cloud-based platform without disrupting the critical services your residents and community depend on.

Our proposal is straightforward: a fixed monthly rate per user that includes everything:

- Brand new equipment at all nine locations — no surprise costs
- Professional installation, configuration, and cutover — fully managed by UniVoxx
- Seamless number porting — we handle every detail
- Full integration with your overhead paging, Fire Station 1 door intercoms, and PD Dispatch VoIP handoff
- Real Southfield, MI based support at no additional cost

Here's what makes UniVoxx different: we own our entire platform from the ground up — SIP trunks, dashboards, analytics, and all. We didn't adapt a generic business phone system. That means real-time visibility into every device across all nine of your locations, proactive alerts when equipment goes offline, emergency call analytics, and a unified dashboard that gives your IT team insights no off-the-shelf provider can match.

You'll have full visibility across your entire portfolio of locations from a centralized portal, a proactive support team that feels like an extension of your IT staff, and the confidence that comes from working with people whose only focus is managing telecom.

We would be honored to serve as Madison Heights' telecom partner and look forward to demonstrating what world-class service looks like in the public sector.

Respectfully submitted,  
 Warren Frenkel, Co-Founder, UniVoxx LLC

**Company Overview**

<b>Company Name</b>	UniVoxx, LLC
<b>Website</b>	<a href="http://www.UniVoxx.com">www.UniVoxx.com</a>
<b>Phone</b>	(313) 626-5000
<b>Email</b>	<a href="mailto:Support@UniVoxx.com">Support@UniVoxx.com</a>
<b>Address</b>	25899 W 12 Mile Rd suite 335, Southfield, MI 48034
<b>Primary Contact / Title</b>	Warren Frenkel, Co-Founder
<b>Years in Business</b>	8 Years
<b>Platform Type</b>	Cloud

**Section 2 - Understanding of Existing System**

CoMH's current system is a Cisco CUCM deployment installed in 2015 with primary/secondary failover between City Hall and Police. All Cisco licensing has expired. Nine locations are interconnected via dark fiber with primary and secondary ISP circuits in failover. Existing Gigabit PoE switches are suitable for VoIP without upgrade. Cisco ATA 190 units are end-of-life and will be replaced. Faxing and elevator analog lines are out of scope. A critical dependency is the existing call handoff from the City PBX to the PD Dispatch VoIP system.

**Section 3 - Feature Compliance Matrix**

Legend: R = Required · O = Optional · N = Not Required · X = Pricing Required

Feature	Need	Offered?	Standard or Extra Cost?
Call Forwarding	R	Yes	Standard
Call Transfer	R	Yes	Standard
Caller ID	R	Yes	Standard
Call Routing	R	Yes	Standard
Do Not Disturb	R	Yes	Standard
Three-Way Call	R	Yes	Standard
Auto Attendant	R	Yes	Standard - multi-level menus, custom greetings
IVR	O	Yes	Standard - directs callers to correct department
Call Queues	R	Yes	Standard
Custom Music on Hold	O	Yes	Standard - Hold Music Builder with AI Voices
Voicemail	R	Yes	Standard
Voicemail Transcription	R	Yes	Standard - voicemail-to-email with transcription

Video Conferencing	O	No	n/a - We can discuss if this becomes mandatory
Call Recording (Ad Hoc)	X	Yes	Standard
Call Analytics / Reporting	O	Yes	Standard - dashboards included
Anonymous Call Rejection	O	Yes	Standard
Wireless Phone Sets	O	Yes	Standard
Mobile App	O	Yes	Standard - iOS & Android
Desktop Softphone	O	Yes	Standard
Number Porting	R	Yes	Standard
Call Screening	X	No	n/a - We can discuss if this becomes mandatory
Hot Desking	N	No	n/a - We can discuss if this becomes mandatory
ATA (Analog Connectivity)	R	Yes	Standard - replacement ATAs quoted
Paging System Interface	R	Yes	Standard - building-specific overhead paging
Recorded Hotline Number	X	Yes	Standard
15-Min Battery Backup	R	Yes	Existing UPS units confirmed compliant at site survey – no replacement required.

## Section 4 - Key Feature Details

### Auto Attendant & IVR

UniVoxx supports multi-level auto attendants with custom greetings, time-based routing, and interactive call distribution to direct callers to the correct department.

### Voicemail & Announcement Mailboxes

All users receive individual voicemail with voicemail-to-email and transcription. Department announcement mailboxes (information-only, no message deposit) are supported.

### City Directory

UniVoxx supports full city directory functionality by enabling automated attendant (IVR) menus, dial-by-name directories, and department-based routing so callers can quickly reach the correct office without needing a live operator.

### Emergency 911 Notification

UniVoxx provides configurable 911 notification functionality that automatically alerts preselected parties whenever a 911 call is placed. Notifications can be delivered via email and/or text message, ensuring designated staff are immediately informed with relevant call details for rapid response and internal follow-up.

### Overhead Paging Interface

UniVoxx supports facility specific overhead paging. Staff initiate a page by dialing a designated extension. Compatibility with existing paging amps confirmed at walkthrough. Proposal includes SIP to analog bridge devices (Snom PA1+) that will allow your existing amplifiers to work with UniVoxx.

### Door Box / Intercom - Fire Stations

UniVoxx will support existing door boxes and intercoms if able or else replace with new equipment at no charge.

### PD Dispatch VoIP Integration

UniVoxx supports PD Dispatch VoIP integration by allowing calls to be directly placed or seamlessly transferred to the designated dispatch number. This ensures fast, reliable routing to Public Safety without requiring additional systems or complex integrations.

### Ad Hoc Call Recording (Optional)

UniVoxx enables user-initiated call recording directly from the handset using a programmable key. Retention policies can be aligned to CoMH requirements, and this functionality is included at no additional charge.

### Call Analytics & Reporting

UniVoxx's standard platform includes dashboards: answered/missed calls, average time to answer, call volume by number, busiest times, and multi-location detail, etc.

### Training

UniVoxx includes a dedicated train-the-trainer session for CoMH's IT vendor and/or responsible parties at no additional cost.

## Section 5 - Phone & Equipment Pricing Proposal

1-for-1 replacement assumed per Addendum Q36. Final counts confirmed post-award. Product data sheets attached as exhibits.

Item	Proposed Model	Est. Qty	Unit Price	Est. Total
Standard Desk Phone	Grandstream GRP2613	179	\$0.00	\$0.00
Executive / Enhanced Desk Phone	Grandstream GRP2670	21	\$100.00	\$2,100.00
Conference Room Phone	Grandstream GAC2570	3	\$450.00	\$1,350.00
Wireless/Cordless Handset + Base	Grandstream WP826	TBD	\$0.00	\$0.00
ATA Device	Grandstream HT812 V2	8	\$0.00	\$0.00
Paging Interface / Multicast Adapter	Snom PA1+	5	\$0.00	\$0.00
Door Box / SIP Intercom Interface (FS1)	Use existing. If replacing Grandstream GDS3725 or GDS3726 (\$130/unit)*	5	\$0.00*	\$0.00
Battery Backup / UPS (new hardware)	Use existing. If replacing CyberPower CP1500PFCRM2U (\$360/unit)*	0	\$0.00*	\$0.00

NOTE: Hardware prices are for new extensions with a 5-year agreement. We support over 100 IP-based phones, if you prefer different model(s) we would be happy to discuss. \*Replacement pricing shown reflects per-unit cost if site conditions require it post-award.

**Estimated Equipment Total: \$3,450.00**

**Section 6 - Implementation Plan & Timeline**

UniVoxx will implement on whatever schedule works best for the City of Madison Heights — as little as one week from start to finish, or at whatever pace the city prefers.

Once we receive an export from the active CUCM system, our team can configure the new platform and pre-stage all equipment in a matter of days. The 12-week plan below is built around the city’s comfort — not our limitations. It accounts for DID porting lead times (which are carrier-controlled and typically require 4–6 weeks), equipment delivery windows, and adequate time for CoMH to review and approve each phase without feeling pressured. If the city has a target go-live date, we will build around it. The timeline is yours to set.

Step	Title	Timing	Description
1	Contract Award & Kickoff	Week 1	Contract execution, kickoff meeting, assign UniVoxx project manager and CoMH point of contact.
2	Discovery & DID Audit	Weeks 1-2	Access active CUCM to review all live lines. Audit DIDs. Survey department configuration preferences. Confirm paging amp models and production handset count.
3	System Design & Configuration	Weeks 2-4	Configure platform, auto attendants, call queues, voicemail, paging, and PD Dispatch handoff.
4	Equipment Procurement & Pre-Staging	Weeks 3-5	Order and pre-configure all handsets, replacement ATAs, paging interfaces, and UPS units.
5	DID Porting	Weeks 4-6	Submit porting requests to current month-to-month carrier. Coordinate port dates to minimize disruption.
6	Site Delivery & Installation	Weeks 6-8	UniVoxx delivers and installs pre-configured equipment at all 9 locations. Configure VLANs, paging interfaces, and ATA replacements in partnership with CoMH’s IT vendor.
7	Testing & UAT	Weeks 8-9	Test all extensions, auto attendants, paging, FS1 intercoms, E911, PD Dispatch handoff, and voicemail. CoMH approves system.
8	Training	Week 10	CoMH staff & CoMH IT vendor/responsible party.

9	Cutover / Go-Live	Week 11	Final cutover from CUCM/PRI to UniVoxx. Decommission CUCM. CoMH confirms cutover complete.
10	Post Go-Live Hypercare	Weeks 11-12	Elevated support period as necessary.

Note: We can shorten this timeline at CoMH’s discretion.

## Section 7 - Support Model

We are proposing a 5-year service agreement with monthly recurring pricing as outlined in Section 9.

<b>Support Hours</b>	8:00-5:30 M-F, 24/7 Support for emergencies, Critical Outages 1-hour response target; non-critical next business day.
<b>Support Channels</b>	Phone, Email
<b>Software Updates &amp; Patching</b>	UniVoxx is responsible for all platform updates and security patches
<b>Hardware Warranty</b>	Covered except in cases of intentional damage
<b>On-Site Support Post Go-Live</b>	UniVoxx facilitates in-person visits for repairs, updates, or changes as required
<b>CoMH IT Role</b>	CoMH IT handles basic end-user support; UniVoxx provides full vendor support beyond that
<b>Moves / Adds / Changes</b>	Everything can be handled easily through our included portal, and we are available to assist as well

## Monthly Recurring Service Pricing

Item	Monthly Price
VoIP Service - Per User/Extension	\$6.95/mo (approx. 221 extensions)
VoIP Service - CoMH Enterprise	Included Standard
Door Box / ATA Analog Services	Included Standard
E911 Registration (per location, 9 locations)	Included Standard
Directory Listing Services	\$3.95/mo
FCC & UTC Regulatory Fees	\$238.67 – as of 03/26*
Moves / Adds / Changes & Support	Included Standard
Mobile App (per user)	Included Standard
Desktop Softphone (per user)	Included Standard
Call Analytics / Reporting	Included Standard
Ad Hoc Call Recording - Optional (per user)	Included Standard
Video Conferencing - Optional	N/A – We can discuss if this becomes mandatory

**Estimated Total Monthly Recurring: \$1,778.57**

\*Please be aware the Government Taxes and Fees may change quarterly.

## Section 8 - Security & CJIS Compliance

UniVoxx acknowledges and fully addresses all four (4) CJIS-related security requirements stated in RFP MH 26-04.

### 1. CJIS Guidelines Adherence

UniVoxx adheres to all applicable CJIS Security Policy guidelines.

### 2. System Control Permissions

UniVoxx provides granular system control permissions with role-based access controls to ensure only authorized personnel can access sensitive features and data. Our permission structure is designed to support CJIS compliance requirements, including two-factor user authentication, audit logging, and controlled administrative access.

### 3. Default Password Change Policy

All UniVoxx customers' hardware is assigned a randomly generated and unique password for their site. For portal access, leveraging your organization's Single Sign-On (SSO) integration with our platform, password complexity, rotation, and lockout policies remain fully under your control. In addition, UniVoxx enforces its own platform-level password and access security policies to ensure layered protection and alignment with industry best practices.

### 4. Unused Services & Protocol Hardening

All unused or nonessential services are disabled on all VoIP devices. Additionally, all communication is encrypted using TLS, SSL, and SRTP.

*Note: The VoIP network must be segmented from your CJIS data network per CJIS compliance requirements.*

## Section 9 - Cost Proposal Summary

### One-Time Costs

Item	Amount
Equipment – Standard Desk Phones	\$0.00
Equipment – Executive Desk Phones	\$2,100.00
Equipment - Conference Phones (3 units)	\$1,350.00
Equipment - ATA Devices	\$0.00
Equipment - Wireless/Cordless Handsets	\$0.00
Equipment - Paging Interfaces	\$0.00
Equipment - Door Box/Intercom Interfaces - FS1 (5 units)	Existing (if replacement required \$130/each)
Equipment - UPS/Battery Backup	Existing (if replacement required \$360/each)
DID Number Porting Charges	\$0.00 (included)
Onboarding / Professional Services	\$0.00
Installation - All 9 Locations	\$0.00
Training - CoMH staff + Vendor	\$0.00

**Total One-Time Cost (Estimated): \$3,450.00**

## Monthly Recurring Costs

Item	Amount
VoIP Service - CoMH Enterprise	\$1,535.95 (221 extensions @ \$6.95/each)
E911 Registration - 9 Locations	Included Standard
Door Box Analog Services	Included Standard (as a VoIP extension)
Directory Listing Services	\$3.95/mo
FCC & UTC Regulatory Fees	\$238.67* – as of 03/26
Moves / Adds / Changes & Ongoing Support	\$0.00/mo

**Total Estimated Monthly Recurring: \$1,778.57**

Please be aware government taxes and fees may change quarterly.

## Optional Add-Ons

Item	Amount
Ad Hoc Call Recording (per user/mo) - Michigan retention compliant	Included Standard
Video Conferencing	N/A - We can discuss if this becomes mandatory
On-Premise Survivability Module (if available)	Basic included – calls fail to mobile; voicemail and greetings still work.
Wireless/Cordless Handsets (per unit)	Included Standard (as a VoIP extension)

## Attestation & Signature

The undersigned authorized representative of UniVoxx LLC hereby certifies that the information contained in this proposal is accurate and complete, that UniVoxx LLC is registered to conduct business in the State of Michigan, and agrees to comply with all terms and conditions of RFP MH 26-04.

Respectfully Submitted,

	Warren Frenkel, Co-Founder	03/03/2026
Authorized Signature	Printed Name & Title	Date



## 6-line Carrier-Grade IP Phone

### GRP2613

The GRP2613 is a powerful 6-line carrier-grade IP phone designed with zero-touch provisioning for mass deployment and easy management. It features a sleek design and a suite of next-generation features including 24 virtual multi-purpose keys (VPKs), dual Gigabit ports, a color LCD with swappable face plates for easy logo customization and more. The GRP series includes carrier-grade security features to provide enterprise-level security, including secure boot, dual firmware images and encrypted data storage. For cloud provisioning and centralized management, the GRP2613 is supported by Grandstream's Device Management System (GDMS), which provides a centralized interface to configure, provision, manage and monitor deployments of Grandstream endpoints. Built for the needs of desktop workers and designed for easy deployment by enterprises, service providers and other high-volume markets, the GRP2613 offers an easy-to-use and easy-to-deploy voice endpoint.

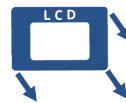


Supports up to 4 SIP accounts and 6 multi-purpose line keys



**Gigabit**

Dual switched auto-sensing 10/100/1000 Mbps Gigabit ethernet ports with integrated PoE



Swappable faceplate to allow for easy logo customization



Equipped with noise shield technology to minimize background noise



HD audio supporting all major codecs, including wideband codecs G.722 and Opus



Up to 24 digital BLF keys



Enterprise-level protection including secure boot, dual firmware images, and encrypted data storage

<b>Protocols/Standards</b>	SIP RFC3261, TCP/IP/UDP, RTP/RTCP, HTTP/HTTPS, ARP, ICMP, DNS(A record, SRV, NAPTR), DHCP, PPPoE, TELNET, TFTP, NTP, STUN, SIMPLE, LLDP, LDAP, TR-069, 802.1x, TLS, SRTP, IPV6
<b>Network Interfaces</b>	Dual switched auto-sensing 10/100/1000 Mbps Gigabit Ethernet ports with integrated PoE
<b>Graphic Display</b>	2.8 inch (320x240) TFT color LCD
<b>Feature Keys</b>	6 line keys with up to 4 SIP accounts, 4 XML programmable context sensitive soft-keys, 5 navigation/menu keys, 11 dedicated function keys for: MESSAGE(with LED indicator), PHONEBOOK, TRANSFER, CONFERENCE, HOLD, HEADSET, MUTE, SEND/REDIAL, SPEAKERPHONE, VOL+, VOL-
<b>Auxiliary Port</b>	RJ9 headset jack (allowing EHS with Plantronics headsets)
<b>Voice Codecs and Capabilities</b>	Support for G7.29A/B, G.711 $\mu$ /a-law, G.726, G.722(wide-band), G723, iLBC, OPUS, in-band and out-of-band DTMF(in audio, RFC2833, SIP INFO), VAD, CNG, AEC, PLC, AJB, AGC
<b>Telephony Features</b>	Hold, transfer, forward, 5-way conference, call park, call pickup, shared-call-appearance(SCA)/bridged-line-appearance(BLA), downloadable phonebook(XML, LDAP, up to 1000 items), call waiting, call log (up to 2000 records), XML customization of screen, off-hook auto dial, auto answer, click-to-dial, flexible dial plan, hot-desking, personalized music ringtones and music on hold, server redundancy and fail-over
<b>HD Audio</b>	Yes, HD handset and speakerphone with support for wideband audio
<b>Base Stand</b>	Yes, 2 angle positions available, Wall Mountable (Wall Mount *sold separately)
<b>QoS</b>	Layer 2 QoS (802.1Q, 802.1P) and Layer 3 (ToS, DiffServ, MPLS) QoS
<b>Security</b>	User and administrator level passwords, MD5 and MD5-sess based authentication, 256-bit AES encrypted configuration file, SRTP, TLS, 802.1x media access control, secure boot.
<b>Multi-language</b>	English, German, Italian, French, Spanish, Portuguese, Russian, Croatian, Chinese, Korean, Japanese, and more
<b>Upgrade/Provisioning</b>	Firmware upgrade via FTP/TFTP/TFTPS/HTTP/HTTPS, mass provisioning using GDMS/TR-069 or AES encrypted XML configuration file.
<b>Power &amp; Green Energy Efficiency</b>	Universal power adapter included: Input:100-240V ; Output: +5V, 0.6A ; Integrated Power-over-Ethernet(802.3af) IEEE 802.3az Energy-Efficient Ethernet Max power consumption 3W(power adapter) or 3.8W(PoE)
<b>Temperature and Humidity</b>	Operation: 0°C to 40°C Storage: -10°C to 60°C Humidity: 10% to 90% Non-condensing
<b>Package Content</b>	GRP2613 phone, handset with cord, phone stand, 5V power adapter, network cable, Quick Installation Guide, GPL license
<b>Physical</b>	Dimension: 203mm x 193mm x 52.1mm; Unit weight: 554g ; Package weight: 936g
<b>Compliance</b>	FCC: Part 15 Class B; FCC Part 68 HAC CE: EN 55032; EN 55035; EN 61000-3-2; EN 61000-3-3; EN 62368-1 RCM: AS/NZS CISPR32;AS/NZS 61000.3.2; AS/NZS 61000.3.3;AS/NZS 62368.1; AS/CA S004 IC: ICES-003; CS-03



# 12-Line Professional Carrier-Grade IP Phone

## GRP2670

Part of the GRP series of Carrier-Grade IP Phones, the GRP2670 is a professional 12-line model designed with zero-touch provisioning for mass deployment and easy management. It features a sleek design and a suite of next-generation features including: 5-way voice conferencing to maximize productivity, integrated PoE & Wi-Fi 6, full HD audio on both the speaker and handset to allow users to communicate with the utmost clarity, EHS support for Plantronics headsets and integrated USB headset support. The GRP series includes carrier-grade security features to provide enterprise-level security, including secure boot, dual firmware images and encrypted data storage. For cloud provisioning and centralized management, the GRP2634 is supported by Grandstream's Device Management System (GDMS), which provides a centralized interface to configure, provision, manage and monitor deployments of Grandstream endpoints. With 48 Virtual Multi-Purpose Keys (VPK), an easy-to-use 7-inch capacitive touch screen, and support for Bluetooth, EHS (Plantronics) and USB headsets, the GRP2670 is the perfect choice for busy professionals and receptionists who need to manage high call volumes, with advanced functionality. Designed for easy deployment by enterprises, service providers and other high-volume markets, the GRP2670 offers an easy-to-use and easy-to-deploy voice endpoint.



12 lines, 16 SIP accounts



Supported by GDMS which provides a centralized interface to configure, provision, manage and monitor Grandstream devices



RJ9 headset jack allowing EHS with Plantronics headsets, and integrated USB Headset support



Full-duplex speakerphone with HD audio to maximize audio quality and clarity



Equipped with noise shield technology to minimize background noise



Dual switched auto-sensing 10/100/1000 Mbps Gigabit Ethernet ports with integrated PoE



Supports 5-way audio conferencing for easy conference calls



Enterprise-level protection including secure boot, dual firmware images, and encrypted data storage



Integrated dual-band (2.4GHz and 5GHz) Wi-Fi 6 (802.11a/b/g/n/ac/ax) - hardware version 5.0 and above

<b>Protocols/Standards</b>	SIP RFC3261, TCP/IP/UDP, RTP/RTCP, HTTP/HTTPS, ARP, ICMP, DNS(A record, SRV, NAPTR), DHCP, PPPoE, TELNET, TFTP, NTP, STUN, SIMPLE, LLDP, LDAP, TR-069, 802.1x, TLS, SRTP, IPV6
<b>Network Interfaces</b>	Dual switched auto-sensing 10/100/1000 Mbps Gigabit Ethernet ports with integrated PoE
<b>Graphic Display</b>	7 inch (1024x600) capacitive touch screen TFT LCD
<b>Wi-Fi</b>	Integrated dual-band (2.4GHz and 5GHz) Wi-Fi 6 (802.11a/b/g/n/ac/ax) - hardware version 5.0 and above
<b>Bluetooth</b>	Yes, integrated
<b>Feature Keys</b>	5 navigation/menu keys, 9 dedicated function keys for: MESSAGE(with LED indicator), TRANSFER, HEADSET, HOLD MUTE, SEND/REDIAL, SPEAKERPHONE, VOL+, VOL-
<b>Auxiliary Port</b>	RJ9 headset jack allowing EHS with Plantronics headsets, USB to support Grandstream's GUV Series headsets and other USB headsets
<b>Voice Codexs and Capabilities</b>	Support for G7.29A/B, G.711 $\mu$ /a-law, G.726, G.722(wide-band),G723,iLBC, OPUS, in-band and out-of-band DTMF(in audio, RFC2833, SIP INFO)
<b>Telephony Features</b>	Hold, transfer, forward, 5-way conference, call park, call pickup, shared-call-appearance(SCA)/bridged-line-appearance(BLA), downloadable phonebook(XML, LDAP, up to 2000 items), call waiting, call log(up to 2000 records), XML customization of screen, off-hook auto dial, auto answer, click-to-dial, flexible dial plan, hot-desking, personalized music ringtones and music on hold, server redundancy and fail-over
<b>HD Audio</b>	Yes, HD handset and speakerphone with support for wideband audio
<b>Extension Module</b>	Yes
<b>Base Stand</b>	Yes, 2 angle positions available, Wall Mountable (Wall Mount *sold separately)
<b>QoS</b>	Layer 2 QoS (802.1Q, 802.1P), 802.11e (WMM) and Layer 3 (ToS, DiffServ, MPLS) QoS
<b>Security</b>	User and administrator level passwords, MD5 and MD5-sess based authentication, 256-bit AES encrypted configuration file, SRTP, TLS, 802.1x media access control, secure boot.
<b>Multi-language</b>	English, German, Italian, French, Spanish, Portuguese, Russian, Croatian, Chinese, Korean, Japanese and more
<b>Upgrade/Provisioning</b>	Firmware upgrade via FTP/TFTP/TFTPS/HTTP/HTTPS, mass provisioning using GDMS/ TR-069 or AES encrypted XML configuration file.
<b>Power &amp; Green Energy Efficiency</b>	Universal power adapter included: Input:100-240V ; Output: +12V, 1A ; Integrated Power-over-Ethernet(802.3af) IEEE 802.3az Energy-Efficient Ethernet Max power consumption 6.5W(power adapter)
<b>Temperature and Humidity</b>	Operation: 0°C to 40°C Storage: -10°C to 60°C Humidity: 10% to 90% Non-condensing
<b>Package Content</b>	GRP2670 phone, handset with cord, phone stand, 12V power adapter, network cable, Quick Installation Guide, GPL license
<b>Physical</b>	Dimension: Unit weight:1.1kg ; Package weight:1.65kg Dimension: 267mmx 220mmx 82mm
<b>GRP2670 Compliance</b>	FCC: Part 15 Subpart B(Class B), Part 15 Subpart C 15.247, Part 15 Subpart C 15.407, Part 1 Subpart I, Part 68. 316/317; IC: RSS-247, RSS-Gen, RSS-102, ICES-003, CS-03 Part V; CE: EN 55032, EN 55035, EN 61000-3-2, EN 61000-3-3, EN 62368-1, EN 62311, EN 301 489-1, EN 301 489-17, EN 300 328, EN 301 893; RCM: AS/NZS CISPR 32, AS/NZS 62368.1, AS/NZS 4268, AS NZS 2772.2, AS/CA S004.



## Cordless Wi-Fi IP Phone

### WP826

The WP826 is a cordless Wi-Fi IP phone suitable for many enterprise and vertical market applications, including offices, retail, logistics, healthcare, security, and more. This high-end cordless Wi-Fi phone is equipped with integrated dual band Wi-Fi 6, an advanced antenna design, roaming support, 5-way voice conferencing, and support for the Opus HD voice codec. The WP826 provides 12 hours of talk-time and 240 hours of standby time through a 3000mAh battery to drive employee productivity. By providing a sleek design, easy-to-use interface, and a variety of practical, customizable features, the WP826 provides mobility and flexibility to all voice solutions.



Dual-band Wi-Fi 6 with efficient antenna design and advanced roaming support



3 SIP accounts, 3 lines



HD voice & dual MIC design with AEC, Noise Shield Technology, and AI noise cancellation



Integrated Bluetooth to connect headsets



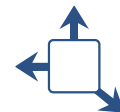
Rechargeable 3000mAh battery, 12 hour talk time, 240-hour standby



Configurable button for push-to-talk



Type C USB port (supports fast charging)



Accelerometer, emergency button

<b>Protocol/Standards</b>	SIP RFC3261, DNS (A record, SRV, NATPR), DHCP, SSH, NTP, STUN, TURN, ICE, LDAP, TR069, SNMP, RTP, SDES-SRTP, DTLS-SRTP, RTCP, RTCP-XR, TFTP, SIMPLE, HTTP/HTTPS, TCP, UDP, TLS, ARP, ICMP, IPv4, IPv6, 802.1X
<b>VPN</b>	Support OpenVPN®, WireGuard®
<b>Voice Codex and Capabilities</b>	G.729A/B, G.711μ/a-law, G.726, G.722(wide-band), G.723.1, iLBC, Opus, in-band and out-of-band DTMF (in audio, RFC2833, SIP INFO), VAD, AEC, CNG, PLC, AGC, AJB
<b>Video Codec</b>	H.264
<b>Wi-Fi</b>	Yes, integrated dual-band Wi-Fi 6 802.11 a/b/g/n/ac/ax (2.4GHz & 5GHz). 802.11k/r/v Supported
<b>Wi-Fi Encryption</b>	Supports WEP, WPA, WPA2, WPA3 (Enterprise & Personal), OWE
<b>Graphic</b>	2.4 inch (240x320) color LCD, 1 * Dual color MWI
<b>Bluetooth</b>	Yes, integrated Bluetooth 5.0
<b>Peripherals</b>	3 soft keys, navigation keys, confirm key, dial key, hang up key, speaker key, quick access and mute key, backlight DTMF keyboard, volume keys, Push-to-Talk key, accelerometer, proximity sensor, vibration
<b>Push-to-Talk</b>	Customizable function button for alarm and paging
<b>Auxiliary Ports</b>	Type-C charging interface (supports fast charging)
<b>Telephony</b>	Hold, transfer, forward, 5-way audio conference, call park, downloadable phonebook (XML, up to 1000 items), call waiting, call log (up to 500 records), auto answer, click to dial, flexible dial plan, personalized music ringtones, server redundancy and fail-over, push-to-talk
<b>Wall Installation</b>	Base supports wall installation
<b>Security</b>	Ordinary user and administrator level passwords based on MD5 and MD5 sess authentication, SIP authentication algorithms based on SHA-256, SHA-256 sess, SHA-512/256, SHA-512/256 sess, MD5 sess. AES security profile, SRTP, TLS call encryption, 802.1X media access control. Support SCEP
<b>HD Audio</b>	The handset is broadband audio, supporting HAC and dual Mic.
<b>QoS</b>	Supports Layer 3 QoS (Tos, DiffServ, MPLS, DSCP)
<b>Multi-language</b>	Arabic, Catalan, Simplified Chinese, Traditional Chinese, Croatian, Czech, Danish, Dutch, English, French, German, Greek, Hebrew, Hrvatski, Italian, Japanese, Korean, Latvian, Magyar, Polish, Polski, Portuguese, Russian, Swedish, Slovenian, Slovak, Spanish, Turkish, Ukrainian, Vietnamese
<b>Upgrade/Provisioning</b>	Firmware upgrade via FTP / FTPS / TFTP / HTTP / HTTPS, mass provisioning using GDMS/TR069 or AES encrypted XML configuration file
<b>Power &amp; Green Energy Efficiency</b>	Universal power adapter Input: 100-240VAC; Output: +5VDC, 2A (10W) 3000mAh lithium-ion battery, standby time 240h, talk time 12h (laboratory data)
<b>Antibacterial Casing</b>	Antibacterial Casing according to ISO 22196:2011
<b>Physical</b>	Handset dimensions: 148.00 x 53.00 x 17mm Charger cradle dimensions: 85.00 x 85.00 x 25.8mm Handset weight (not including battery): 101g Handset package weight (not including QIG): 451g
<b>Temperature and Humidity</b>	Operating Temperature: 0°C to 45°C; Operating Humidity: 10-90% (non-condensing) Storage Temperature: -20°C to 60°C; Storage Humidity: 10-90% (non-condensing)
<b>Package Contents</b>	WP826 phone, Type-C power adapter, charger base, belt clip, 1 lithium-ion battery, M3 screw, wall bracket, quick installation guide
<b>Compliance</b>	FCC, CE, RCM, IC

# PA1+



Power over Ethernet (PoE)



IPv6 & IPv4



Gigabit Ethernet



Relay control interface



Security (TLS & SRTP)



Plug & Play



HD audio

## Snom's SIP-based announcement system

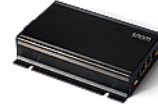
With the Snom PA1+, a SIP PBX can be expanded to become a broadcasting system for HD audio announcements from any Snom SIP phone or to play background music in rooms, corridors and office floors. The integrated 6.5-watt high-performance amplifier can already fill large rooms with sound using existing speakers, but larger PA systems can also be added via the existing connections. Another possible use is the freely configurable relay contacts,

which can be remotely controlled via SIP or DTMF and thus help to integrate existing door opening systems, for example. Additional network components such as LAN cameras can also be connected to the gigabit switch in order to set up or expand a security system. High security standards, such as SHA 2 encryption, are key attributes of the PA1+.

## Product variants



PA1+ | EU & UK | PN 00004602



PA1+ | Americas | PN 00004603

## Basics

- Product information
  - Public announcement system
  - Colour: black
  - Operating system: Linux
- Placement: indoor, wall mounting, ceiling mounting

## Dimensions and weight

- Dimensions (L × W × H, approx.)
  - 165 mm × 104 mm × 35 mm
  - 175 mm × 104 mm × 35 mm with connectors
- Weight (approx.)
  - 400 g

## Indicators and keys

- 2 LED indicators
  - Call status indication: 1 green LED
  - Power status indication: 1 red LED
- 1 dedicated function key: Reset / IP address announcement

## Audio devices and codecs

- Audio output
  - Amplifier<sup>1</sup>
    - 6.5 W, class D
    - Impedance: 8 Ω
  - Line out: 600 Ω
- Audio codecs
  - G.711 (A-law, μ-law), G.722, G.723.1, G.726, G.729, Opus

- Dual-tone multi-frequency signalling (DTMF / RFC2833)
  - SIP-INFO
  - in-band
  - out-of-band

## Interfaces and connections

- Power options
  - Power over Ethernet (PoE)
    - IEEE 802.3af, class 3 | IEEE 802.3az<sup>4</sup>
  - Power adapter
    - 100 - 240 V AC, 50 - 60 Hz | 5 V DC (SELV), 2 A, 10 W<sup>2</sup>
- Wired interfaces
  - Power adapter: coaxial power connector (socket) (5V DC)
  - Network connectivity: 2 × RJ45-8P8C (Port 1/2) sockets → Gigabit Ethernet (GbE)
  - Headset:<sup>3</sup> 2 × 3.5 mm miniature audio jack (Mic-In/Line Out)
  - Maintenance: RJ12 (EXT) socket
  - External speaker: loudspeaker terminal + / - (Speaker)
  - External keyboard: proprietary 8-pin socket (KBD)
  - Input / output devices:
    - proprietary 6-pin socket (I/O1)
    - proprietary 4-pin socket (I/O2)
    - proprietary 2-pin socket (VDD)

## Interoperability

- Certified VoIP partner

## Networking technologies and protocols

- Network technologies
  - [OpenVPN](#)
- VoIP related protocols and techniques
  - [SIP, SDP, RTP](#)
- Secure VoIP protocols
  - [SIPS \(SIP over TLS\), SRTP](#)
- Network protocols
  - IPv4 / IPv6 (dual stack), [DHCP](#), [NTP](#), [LDAP](#), [HTTP](#), [FTP](#), [TFTP](#), [L2TP](#)
- Secure network protocols
  - [TLS V1.2](#)

## User interfaces and setup

- Configuration and setup via menu-driven web user interface (WUI)
- Automatic configuration via provisioning
  - Loading of settings and firmware via [HTTP](#), [HTTPS](#), [TFTP](#)
  - Supported DHCP provisioning options [66 / 67](#)
  - [Secure Redirection And Provisioning Service \(SRAPS\) support](#)
  - Plug & Play (PnP) support
  - Secure provisioning with preinstalled certificate
- Localization
  - [Languages](#)

- Time zone, dial tone
- Diagnostic
  - [SIP / PCAP trace](#)
  - [Syslog](#)

## Call features

- Outgoing call features
  - [Multicast paging](#)
- Incoming call features
  - [Auto answer](#)

## Package contents

- Hardware
  - Public announcement system
  - Wall mount plate, wall mount screws
  - Wire set
- Documentation
  - [Quick Installation Guide](#)
  - [GNU General Public License](#)
  - Drill template

## Snom accessories and compatible devices

- Power adapter<sup>2</sup>
  - [Snom 10W PSU \(PN 00004570\)](#)
- [External keyboard](#)
- [External speaker](#)
- [Input / output devices](#)
- [Amplifier](#)

<sup>1</sup> Loudspeaker not included

<sup>2</sup> If PoE is not available

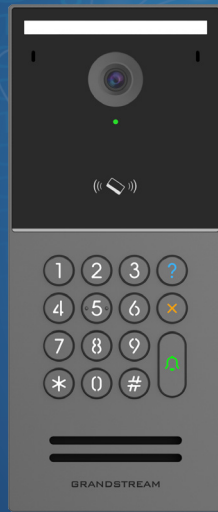
<sup>3</sup> For installation and maintenance purposes

<sup>4</sup> Optional via software

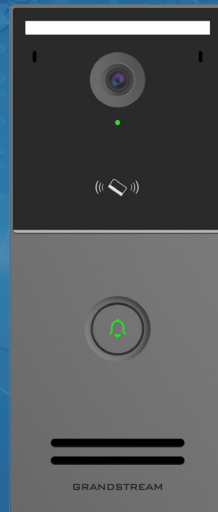
## Disclaimer

Further information: [Snom PA1+ webpage](#) | [Snom Service Hub](#) | [Warranty information](#) | [Type approval](#)

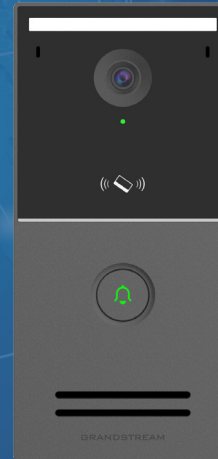
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**GDS3725**



**GDS3726**



**GDS3727**

## Smart IP Video Door Station

**GDS3725 • GDS3726 • GDS3727**

GDS3725/3726/3727 are Smart IP Video Door Stations that also serve as high-definition IP surveillance cameras and IP intercoms to offer facility access control and security monitoring for buildings of all sizes. These powerful IP Video Door Systems offer a 127-degree wide viewing angle, AI ISP intelligent image processor, a built-in IC & ID card reader and NFC chip, includes two built-in microphones and one speaker to support intercom functionality and offers alarm-in and alarm-out support for integration with existing security devices. They integrate with Grandstream's free management software, GDS Manager, allowing ID and IC card information, video feeds as well as the device itself to be fully managed by this software. Meanwhile, there is a free Mobile App "SecureAccess" that supports convenient configuration for devices, users and visitors, open door PINs and permission management, multiple selections for remote open door methods and event logs review, etc., making daily usage super convenient. Powered by an advanced Image Sensor Processor (AI ISP) and state-of-the-art image algorithms, the GDS3725/3726/3727 delivers 1080p FHD video resolution and offers exceptional performance with the ability to clearly identify human beings or objects within 10 feet (3 meters) under extremely low light conditions. The integrated RJ45 PoE port and easy wiring sockets as well as expandable DI (Alarm Input), DO (Alarm Output) and RS485 control ports, intelligent white LED fill light, intrusion/loitering detection sensor, make GDS3725/3726/3727 a convenient but powerful access control solution. Combined with Grandstream's GSC357X Control Stations, GXV Series Video Phones, Wave Mobile App and Network Storage System (GNS), GDS3725/3726/3727 provides a complete end-to-end system solution for access control, video intercom, and security recording needs.



4MP Ultra HD Camera sensor, supports WDR, offers AI Intelligent Fill Light and AI ISP



Strong security protection against external magnetic interference using Solid State Relay (SSR)



Supports multiple door opening methods, such as PIN, IC/ID cards, NFC, BLE, APP, QR-Code, SIP Call



Integrated bluetooth BLE 5.0 and Dual-band Wi-Fi 6 (GDS3727 only)



Support Cloud, SecureAccess Mobile App, and GDS Manager Application






Supports AI-based behavior analysis



Built with a metal casing to make it IP66 weatherproof and IK10 vandal resistant (GDS3725 & GDS3726); Built with a plastic casing IK07 and IP66 weatherproof (GDS3727)

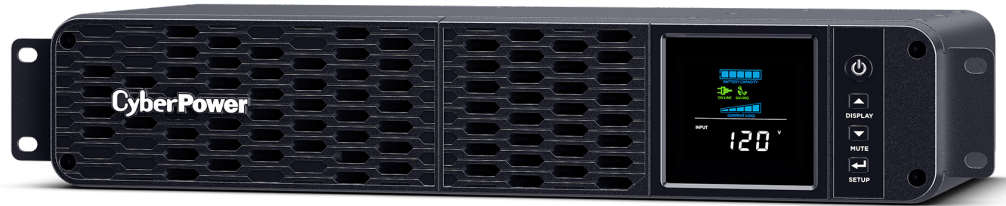


Built-in dual microphones and speaker offers AI noise reduction

Model	 GDS3725	 GDS3726	 GDS3727
<b>Video Compression</b>	H.264 High Profile / Main Profile / Base Profile, Motion JPEG		
<b>Image Sensor Resolution</b>	1/3", 4MP, HDR		
<b>Lens Type</b>	F2.2, FOV: 127°(H) x 70°(V) x 152°(D)		
<b>Day &amp; Night</b>	White light, 6x LED		
<b>Max Video Resolution</b>	Video: up to 1920*1080, Snapshots: up to 1920*1080		
<b>Max Frame Rate</b>	30 frames per second		
<b>Wide Dynamic Range</b>	Yes, up to 120db		
<b>PIR</b>	Supported, 3-5 meters (10-16 feet)		
<b>AI ISP</b>	Supported		
<b>Embedded Analytics</b>	AI-based Motion detection		
<b>Microphone</b>	2 microphones		
<b>Speaker</b>	3 Watt		
<b>Application and GDS Manager</b>	Support Cloud, SecureAccess Mobile App, and GDS Manager Application		
<b>Snapshots</b>	Triggered upon events, sent to Email, FTP Server, GDS Manager, Cloud Server, SecureAccess App and/or Local.		
<b>Network Protocol</b>	TCP/IP/UDP, HTTP/HTTPS, ARP/RARP, ICMP, DNS(A Record, SRV, NAPTR), DHCP, SSH, SMTP, TFTP, NTP, STUN, SIMPLE, TLS, SRTP, TR-069 mass provisioning, local upload firmware		
<b>Bluetooth</b>	BLE 5.0		
<b>Wi-Fi</b>	-	-	Dual-band Wi-Fi 6, 802.11 a/b/g/n/ac/ax (2.4GHz & 5GHz)
<b>Telephony Features</b>	SIP Paging, Multicast Paging, call-waiting with priority override, Account Sharing		
<b>Voice Codecs</b>	G.711μ/a, G.722 (wide-band), G.726-32, G.729, in-band and out-band DTMF (In audio, RFC2833, SIP INFO), VAD, CNG, AEC, PLC, AJB, AGC, ANS		
<b>Video Codecs</b>	H.264		
<b>QoS</b>	Layer 2 (802.1Q, 802.1p), 802.11e and Layer 3 (ToS, DiffServ, MPLS) QoS		
<b>Security</b>	User and administrator level passwords, Ed25519 and X25519 based authentication, 256-bit AES encrypted configuration file, TLS, SRTP, HTTPS, 802.1x media access control		
<b>Upgrade/Provisioning</b>	Firmware upgrade via TFTP/HTTP/HTTPS or local upload, mass provisioning using TR-069 or AES encrypted XML configuration file		
<b>Button</b>	<ul style="list-style-type: none"> <li>• 15-key numeric keypad</li> <li>• 1 anti-tamper button (back)</li> <li>• 1 reset button (inside)</li> </ul>	<ul style="list-style-type: none"> <li>• 1 doorbell key</li> <li>• 1 anti-tamper button (back)</li> <li>• 1 reset button (inside)</li> </ul>	
<b>RFID</b>	13.56MHz&125kHz; MIFARE Classic 1K, MIFARE Classic 4K, MIFARE Ultralight, MIFARE PLUS and MIFARE DESFire		
<b>RFID Number Supported</b>	Up to 5000		
<b>Access Control</b>	2x Relay (SSR)		1x Relay (SSR)
<b>Alarm Input</b>	3x Alarm in		2x Alarm in
<b>Alarm Output</b>	2x Alarm out		1x Alarm out
<b>Network Interface</b>	1x RJ45 10/100 Mbps port with integrated PoE		
<b>Expansion Interface</b>	RS485, Wiegand 26/34 input and output, SD card slot		RS485, SD card slot
<b>Supported SD Card</b>	Maximum capacity 256GB		
<b>Power &amp; Green Energy Efficiency</b>	DC Power Supply: DC 9-36V, 12W POE: 802.3af class3		DC Power Supply: DC 12V, 12W POE: 802.3af class3
<b>Dimensions (H x W x D) and Weight</b>	Unit: 204mm*87mm*35.5mm Weight: 1.56KG Package Weight: 1.743KG	Unit: 204mm*87mm*35.5mm Weight: 1.55KG Package Weight: 1.733KG	Unit: 180.6mm*86.6mm*29mm Weight: 0.524KG Package Weight: 0.721KG
<b>Interoperability</b>	ONVIF (Profile S)		
<b>Package</b>	GDS3725 Device, Quick Installation Guide, Wall Bracket, IC Card, Rain cover (optional)	GDS3726 Device, Quick Installation Guide, Wall Bracket, IC Card, Rain cover (optional)	GDS3727 Device, Quick Installation Guide, Wall Bracket, IC Card, Rain cover (optional)
<b>Temperature and Humidity</b>	Operating Temperature: - 30 - +60°C Operating Humidity: 10-90% (non condensing) Storage Temperature: -30 - +70°C Storage Humidity: 10-90% (non condensing)		
<b>Protection Class</b>	IP66 (EN60529) IK10 (IEC62262) for both metal surface/buttons and lens area		IP66 (EN60529) IK07
<b>Compliance</b>	GDS3725/3726: FCC, CE, RCM, IC, IP66, IK10 GDS3727: FCC, CE, RCM, IC, IP66, IK07		



# CP1500PFCRM2U PFC SINEWAVE UPS SYSTEMS



## Protect security systems, audio/visual equipment, and networking devices

The CP1500PFCRM2U is a PFC Sinewave rackmount UPS that provides battery backup (using sine wave output), surge protection, and EMI/RFI filtration for security systems, audio/visual equipment, and networking equipment requiring active PFC power source compatibility.

The CP1500PFCRM2U features Automatic Voltage Regulation (AVR), which corrects minor power fluctuations without switching to battery power, and a multifunction control panel with a color LCD to quickly confirm status and alerts at-a-glance. Remote management and/or monitoring is available with optional purchase of a Remote Network Management Card or Cloud Monitoring Card. At only 10.5 inches in depth, the CP1500PFCRM2U fits comfortably in short-depth rack installations where space is at a premium.

The CP1500PFCRM2U comes with a three-year warranty (including coverage of batteries) and a \$500,000 Connected Equipment Guarantee.

### TYPICAL APPLICATIONS

- Surveillance & Security Systems
- Pro Audio Equipment
- POS Systems
- Network and Storage Devices

### FEATURES

- Capacity: 1500VA / 1000W
- Topology: Line Interactive
- Waveform: Sine Wave
- Output: 120Vac +/- 5%
- Runtime (half/full): 10.2 minutes / 3.1 minutes
- Plug type & cord: NEMA 5-15P, 6-ft. cord
- Outlets: 8 surge + battery backup
- Outlet types: 8 x NEMA 5-15R
- Communication: USB, SNMP
- Data line protection: Network
- Management software: PowerPanel® Business
- Remote management: Yes, with optional RMCARD205
- ENERGY STAR® certified: Yes
- Warranty: Three-Year
- Connected Equipment Guarantee: \$500,000

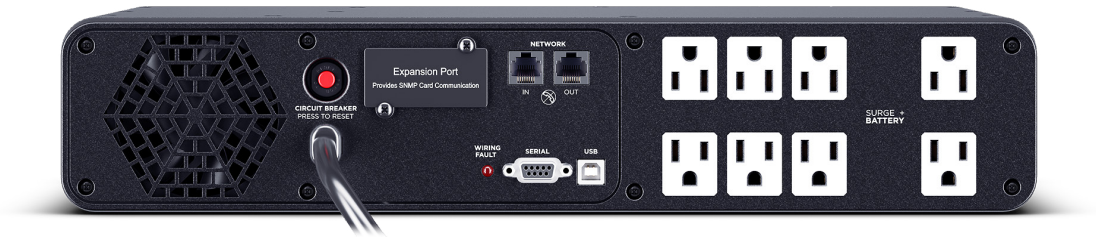
## SPECIFICATIONS

GENERAL	
Active PFC Compatible	Yes
Energy Saving	GreenPower UPS™ Bypass Technology
ENERGY STAR® certified	Yes
UPS Topology	Line Interactive

INPUT	
Circuit Breaker	15 Amps
Cord Length	6 ft (1.8 m)
Input Frequency Range	57 Hz - 63 Hz
Input Plug Type	NEMA 5-15P
Input Voltage Range	88 VAC - 144 VAC
Nominal Input Voltage	120 VAC
Plug Style	Right Angle - 45° Offset

# CP1500PFCRM2U

## PFC SINEWAVE UPS SYSTEMS



### SPECIFICATIONS CONT.

OUTPUT	
Automatic Voltage Regulation	Single Boost
On Battery Frequency	60 Hz +/- 1%
On Battery Voltage	120 VAC +/- 5%
On Battery Waveform	Sine Wave
Outlet Type	8 x NEMA 5-15R
Outlets - Battery & Surge Protected	8
Outlets - Widely-Spaced	2
Outlets - Total	8
Output Power Factor	0.7
Overload Protection	Internal Circuitry Limiting
Typical Transfer Time	4 ms
Under/Over-Voltage Correction	+11%
VA	1500 VA
Watts	1000 W
BATTERY	
Battery Quantity	2
Battery Size	12 Volts / 9 Ah
Battery Type	Sealed Lead-Acid Battery
Hot-Swappable	Yes
Replacement Battery Cartridge	1 x RB1290X2D
Runtime at Full Load	3.1 minutes
Runtime at Half Load	10.2 minutes
Typical Recharge Time	8 Hours
User-Replaceable Battery	Yes
SURGE PROTECTION & FILTERING	
EMI/RFI Filtration	Yes
Network Protection RJ45	1-in / 1-Out (10/100/1000)
Surge Suppression	1500 J

MANAGEMENT & COMMUNICATIONS	
Audible Alarms	Battery Mode / Low Battery Overload / Fault
HID Compliant USB Port	Yes
LCD	Multifunction LCD
LED Indicators	Wiring Fault
Management Cable	USB Cable
Serial Port	1 Dry Contact
SNMP / HTTP Remote Monitoring	Yes - with optional RMCARD205
Software (Free Download)	PowerPanel® Business
PHYSICAL	
Color	Black
Form Factor	Rackmount
Material of Construction	Plastic
Rack Height	2U
PHYSICAL DIMENSIONS	
Physical Dimensions - Width/Height/Depth (cm)	43.18 x 8.64 x 26.67 cm
Physical Dimensions - Width/Height/Depth (mm)	432 x 86 x 267 mm
Physical Dimensions - Width/Height/Depth (in.)	17 x 3.4 x 10.5 in.
Weight (kg)	12.16 kg
Weight (lb)	26.80 lbs.
SHIPPING DIMENSIONS	
Shipping Dimensions - Width/Height/Depth (cm)	37.34 x 16.26 x 52.32 cm
Shipping Dimensions - Width/Height/Depth (mm)	373.38 x 162.56 x 523.24 mm
Shipping Dimensions - Width/Height/Depth (in.)	14.7 x 6.4 x 20.6 in.
Weight (kg)	13.43 kg
Weight (lb)	29.60 lbs.

# CP1500PFCRM2U

## PFC SINEWAVE UPS SYSTEMS

### SPECIFICATIONS CONT.

ENVIRONMENTAL	
AC Mode Thermal Dissipation	26.3 BTU/hr
Operating Elevation	0 to 10,000 ft (0 to 3,048 m)
Operating Relative Humidity	0 to 95% (non-condensing)
Operating Temperature	32 to 104 °F (0 to 40 °C)
Storage Elevation	0 - 50,000 ft (0 - 15,239 m)
Storage Temperature	5 to 113 °F (-15 to -45 °C)

CERTIFICATIONS	
Environmental	RoHS Compliant
Safety	UL1778 FCC DOC Class B
WARRANTY	
CEG Amount	\$500,000
Connected Equipment Guarantee	Lifetime
Extended Warranty Option	WEXT5YR-U2A
Product Warranty	3-Year Limited Warranty