Tempest[®]2400 Wireless CM-222 2-Channel Wireless BaseStation





CM-222 2-Channel Tempest Wireless BaseStation

Description

The Tempest **CM-222** is a 2-channel 2.4GHz Frequency Hopping Spread Spectrum (FHSS) digital wireless intercom system. The CM-222 BaseStation provides connection to two separate hard-wired intercom channels: two 3-pin XLR and one 4-wire port per channel. The 2-wire (TW) interface is compatible with Clear-Com[®], RTS[®], Telex[®] and most other TW intercom systems, 4-wire intercoms and other devices.

The CM-222 front panel offers easy access to the hardwire intercom settings and levels. Each wireless BeltStation can simultaneously monitor and/or talk on both of the hard-wired channels. Each BeltStation user may simultaneously talk/listen on A and B or toggle between A and B in "Single Listen" mode. The CM-222 BaseStation is also compatible with common hardwired system features, such as Call and Remote Mic Kill.

Versatility

The CM-222 BaseStation offers a Stage Announce (SA) output with a relay closure. This is ideal for use with Public Address Systems (PA), city-wide IFB transmitters or virtually any application that can be triggered with a General Purpose Input/ Output (GPIO).

RF Performance

The CM-222 BaseStation comes standard with a single whip antenna (RP-TNC RF connector) and an RJ-45 connector for the (optional) remote transceiver. Redundant data transmission (2xTX) provides time and frequency diversity yielding outstanding RF performance. The remote transceiver allows the antenna functionality to be located up to 1500 ft (450 m) away from the BaseStation over CAT-5/6 cable with no loss of RF signal. The CAT-5/6 cable also supplies power to the remote transceiver. An additional RJ-45 enables remote monitoring and control of the entire wireless system over a Local Area Network (LAN) with the aid of the Tempest T-Desk software.

Expandability

Utilizing the Tempest system's TDMA technology and proprietary Accu-Sync[™] BaseStation coordination, up to 10 CM-222 BaseStations and 50 full-duplex wireless BeltStations (in Normal Mode) can be operated in close proximity to each other within the 2.4 GHz band while maintaining excellent system performance. By switching to Shared Mode, an unlimited number of BeltStations can be connected to one BaseStation.

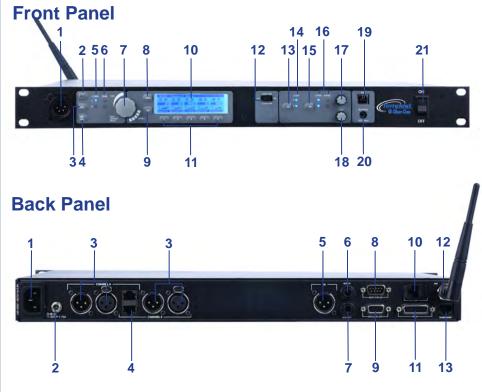
Features:

- 2-channel digital wireless BaseStation
- 2.4 GHz, license free operation
- Frequency Hopping Spread Spectrum technology
- Connect an unlimited number of BeltStations per BaseStation
- 2xTX redundant data transmission
- Large LCD front panel screen showing current status of each BeltStation
- Simple configuration of 2- and 4-wire audio settings, including Input/Output levels
- Compatible with Clear-Com®, RTS®, AudioCom®
- T-Desk software enables remote monitoring via LAN interface
- Optional Remote Transceiver extends antenna coverage up to 1500 ft (450 m) from BaseStation
- Flexible Power Options: Universal voltage power supply (85-264 VAC) or 11-32 DC voltage
- >94 dB dynamic audio range
- Lost Packet Concealment prevents
 "clicks" and "pops" when a data packet is
 lost

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Technical Specifications:

System Specifications RF Frequency: RF Scheme:	2400 to 2480 GHz FHSS with TDMA	Pairing: Programming Port: Stage Announce and	Mini-jack/cable USB	13) Remote Transceiver RJ-45 Conne
Effective Radiated Power:	100mW using 2dBi antenna	GPO Closures: 2-wire Intercom Interface:	6 relays via DB15 2 channels via	Environmental -4° – 122° F (-20° – 50° C)
Receiver Sensitivity:	-93 dBm for 10 ⁻⁵ BER		XLR-3F with XLR-3M loop	Dimensions
Radio Certification:	FCC Part 15.247 and ETS 300.328 rules, license free	2-wire Compatibility:	Clear-Com, RTS and balanced compatible	19 in W x 1.76 in H x 12 in D (483 mm x 44 mm x 190 mm)
Transmission Range:	Up to 1,000ft (305m); 500 - 900ft (150 - 275m) typical	4-wire/Matrix Connection: Aux Input:	2 ports via RJ-45 1/4" 3-conductor jack accepts -4 to	Weight 10.5 oz (4.75kg)
Audio Dynamic Range: Audio Frequency Response:	>94dB 300Hz - 3.8KHz with		+8dB, balanced,	
Audio r requency response.	proprietary audio	Aux Output:	transformer isolated 1/4" 3-conductor	
BaseStation Specifications	voice shaping		jack nominal -4 to +8dB, balanced, transformer isolated	Notice About Specifications While Clear-Com makes every attempt to maintain
Intercom Audio Channels: Full-duplex BeltStations per	2	Stage Announce Output:	XLR-3M, nominal -4 to +8dB, balanced,	the accuracy of the information contained in its product manuals, that information is subject to change without notice. Performance specifications
BaseStation: Half-duplex, Shared	5 (in Normal Mode)	Front Panel Headset:	transformer isolated 4-pin male XLR	included in this manual are design-center specifications and are included for customer guidance and to facilitate system installation.
BeltStations per BaseStation: Number of Antenna Ports	Unlimited	MicrophoneType:	Dynamic or Electret, Auto-Selected	Actual operating performance may vary.
per BaseStation:	1			www.clearcom.co

Antenna Connector Type:

Number of Synchronized

BaseStation/BeltStation

BaseStations:

RP-TNC

10

Front Panel Legend: 1) Local Headset Connector 2) Ta k Button 3) Call Button 4) Mic Kill Button 5) Local Headset Channel LEDs A/B 6) Peak LEDs 7) Volume Control 8) Menu Button 9) Enter Button 10) LCD 11) Buttons 1-5 12) 2-Wire Intercom Type Slide Switches 13) Wired Intercom Channel Select Button 14) Channel LEDs 15) 2-Wire/4-Wire Select Button 16) 2-Wire/4-Wire LEDs 17) IN Level Control 18) OUT Level Control 19) USB Connector 20) Beltstation Program Connector 21) Power ON/OFF Switch Back Panel Legend: 1) AC Power Input Connector 2) DC Power Input Connector 3) Intercom Channel A/B Connectors 4) RJ-45 4-Wire Intercom A/B Connectors 5) Stage Announce Connector 6) Aux IN Connector 7) Aux OUT Connector 8) Base Sync IN Connector 9) Base Sync OUT Connector 10) Local Area Network RJ-45 Connector 11) Relay Connector 12) Antenna Connector 13) Remote Transceiver RJ-45 Connector ain ns om