



Tempest2400 4-Channel BeltStation

TECHNICAL DATA SHEET

Model TMR42524INCC

ABOUT

The Tempest2400 4-channel wireless BeltStation operates in conjunction with the Tempest2400 BaseStations. Each Talk button has individual LED indicators. The Talk button can be latching or momentary. The Call button sends a 2-wire compatible call signal to any wireless BeltStation and any hardwired intercom device on the intercom channel. BeltStations are provided with a rechargeable Lithium-Polymer battery capable of nine hours of operation or can be powered by three Standard AA Alkaline batteries. Each BeltStation has its own back-lit display and menu functions, which allow settings to be changed locally at the BeltStation. When ordering, reference Part Number **TMP-R424** (or **TMP-R424-EU** for European sales).

FEATURES & BENEFITS



- 4-channel, full-duplex BeltStation
- 2.4GHz, license free operation
- Dual Talk/Listen operation
- Backlit LCD screen shows battery life, RF signal strength, and more
- Stage Announce Output with relay closure
- 5 individually assignable relay closures at BaseStation
- Lithium-Polymer Rechargeable battery (or 3 Alkaline AA batteries)
- Weather-resistant enclosure
- Roaming Features:
 - » Seamless Roaming of BeltStation between BaseStations
 - » Supports Normal, Shared, and Split modes
 - » Scalable architecture allows for seamless linked roaming zones
 - » Seamless handoffs between roaming zones are automatic
- RoHS compliant

TECHNOLOGY

Each BeltStation user may simultaneously Talk/Listen on A or B and C or D or toggle between A and B or C and D in "Single Listen" mode. Volume is set by rotating the CH A/B or CH C/D rotary control.

AUDIO

Each full-duplex BeltStation establishes a unique audio path (point-to-point) with the associated 2- or 4-channel BaseStation delivering an individualized mix minus signal to other BeltStations in the system. Therefore, each BeltStation can monitor a unique mix of intercom channels and other audio sources.

DURABILITY

The 4-channel BeltStations are made of a weather-resistant ABS co-polymer blend with a high performance polyurethane over-mold.

SEAMLESS ROAMING

Tempest2400 Seamless Roaming is the ability for Tempest2400 BeltStations to move freely from one BaseStation to another without any intervention from the end user. This allows the implementation of a Tempest wireless intercom system that can cover large areas with multiple zones or areas in a facility that would not be adequately supported by a single antenna installation. A BeltStation can roam between as many as 16 different BaseStations (coverage areas or zones).

SPECIFICATIONS*



SYSTEM SPECIFICATIONS

RF Frequency	2400 to 2480 MHz
RF Scheme	FHSS with TDMA
Effective Radiated Power	100mW using 2dBi antenna
Receiver Sensitivity	-93 dBm for 10 ⁻⁵ BER
Radio Certification	FCC Part 15.247, ETS 300 328 v1.8.1 rules (apply to model numbers ending in "EU" only**), Canadian RSS-210, license free.
Transmission Range	1,000 ft. (304.8 m) under ideal conditions. 500 ft. to 900 ft. (152.4 m to 274.3 m) typical
Audio Dynamic Range	>94 dB
Audio Frequency Response	300Hz–3.8KHz with proprietary audio voice shaping
System Latency	Less than 50 ms direct
RoHS Compliant	Yes

BELTSTATION SPECIFICATIONS

Intercom Audio Channels	4
Simultaneous Listen Paths	True Dual Listen
Headset Connector	4-pin male XLR
Microphone Type	Dynamic or Electret, auto-selected
LCD Display	102 × 80 pixels
Antenna	Internal +2 dBi patch
USB BeltStation Power Supply	Input 100–240 V, 0.3 A, 50–60 Hz; Output 5 V, 1.25 A
Battery Life, Rechargeable	Up to 9 hours
Battery Charge Time, Lithium-Polymer Battery	Under 3 hours
Optional Power	3 Standard AA alkaline cells
Battery Life, Alkaline Batteries	Approximately 4 Hours
Dimensions	H 6.1 in. × W 4.0 in. × D 1.75 in. (156 mm × 102 mm × 44.5 mm)
Weight (with Lithium-Polymer Battery)	14.3 oz (1.17 kg)
Operating Environment	-20° to 50° C (-4° to 122° F); 10% to 90% Humidity

*Notice About Specifications

While CoachComm makes every attempt to maintain the accuracy of the information contained in this datasheet, this information is subject to change without notice. Please check our website for the latest system specifications and certifications. Please check our website for the latest system specifications and certifications.

**TMR42524INEU models meet the same specifications and comply with ETSI standards (300.328 v1.8.1). Non-EU models are non-compliant with ETSI standards.



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