

## Tempest900 4-Channel BeltStation Technical Data Sheet

### ABOUT

The Tempest900 4-channel wireless BeltStation operates in conjunction with the Tempest900 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 Li-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 at the BeltStation locally. When ordering, reference Part Number **TMP-R409**.

### FEATURES & BENEFITS



- 4-channel, full-duplex BeltStations
- 900MHz, license free operation
- Increased range with PIFA Antenna
- Dual Talk/Listen operation
- iSelect™ On-Command Roaming
- Hard-wired Remote Mic Kill and Call
- Backlit LCD screen shows battery life, RF signal strength, and more
- Stage Announce output with relay closure
- 5 individually assignable relay closures at BaseStation
- 2000mAh Lithium-Polymer rechargeable battery (or 3 Alkaline AA batteries)
- Weather-resistant enclosure
- Only available in US and Canada

### TECHNOLOGY

Each BeltStation user may simultaneously Talk/Listen on A and B or toggle between A and B in "Single Listen" mode. Volume is set by rotating the CH A or CH B rotary control. There are two Talk buttons on each BeltStation, one for each channel. The Talk button enables the microphone signal for the assigned intercom.

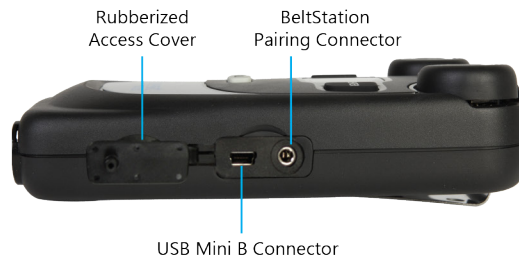
The BeltStation comes with an advanced Planar Inverted-F Antenna (PIFA), providing increased range. The BeltStations are fully compatible with all versions of Tempest900 BaseStations and BeltStations.

### AUDIO

Each of up to five full-duplex wireless BeltStations establishes a unique audio path (point-to-point) with the associated Tempest900 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 2-channel BeltStations are made of a weather-resistant ABS co-polymer blend with a high performance polyurethane over-mold.



## SYSTEM SPECIFICATIONS\*

RF Frequency	902 to 928 MHz
RF Scheme	FHSS with TDMA
Effective Radiated Power	250mW using 2dBi antenna
Receiver Sensitivity	-100 dBm for 10 <sup>-5</sup> BER
Radio Certification	FCC Part 15, 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	>94dB
Audio Frequency Response	300Hz–3.8KHz with proprietary audio voice shaping
System Latency	Less than 60ms direct

## 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	PIFA
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 (405 g)
Operating Environment	-20° to 50° C (-4° to 122° F); 10% to 90% Humidity

### \*Notice About Specifications

While Pliant 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.



Pliant Technologies, LLC  
 Tempest®  
 205 Technology Parkway  
 Auburn, AL 36830 USA  
 www.plianttechnologies.com  
 Phone +1.334.321.1160  
 Toll-Free 1.844.475.4268 or 1.844.4PLIANT  
 Fax +1.334.321.1162

TM9004CHBeltDataSheet\_TMP-R409\_3.16

Copyright © 2016 Pliant Technologies, LLC. All rights reserved. The Pliant™ word mark and the Pliant "P" logo are trademarks of Pliant Technologies, LLC. The Tempest® and SmartBoom® word marks are trademarks of CoachComm LLC. Any and all other trademark references within this document are property of their respective owners.