



Tempest NG900 Sideline Communications

The Tempest NG900 is CoachComm's latest wireless intercom product. It will serve as a supplemental accessory to the existing Tempest NG system. Currently, the Tempest NG system's wireless intercom operates in the 2.4 GHz (2400-2480 MHz) frequency spectrum. The Tempest NG900 operates in the 900 MHz spectrum between 900-928 MHz, and will serve as an additional option to customers in order to meet all their wireless needs on gameday.

The Tempest NG system is and will remain the core sideline communications system from CoachComm. The 2.4 GHz frequency band is the most ideal spectrum to operate within given today's RF environment. With the addition of a Tempest NG900 system, customers would have the flexibility to choose which system to use on game day should any conflict present itself. The NG900 wireless model is only available as an add-on option to existing Tempest NG systems. Pricing for Tempest NG900 will remain the same as Tempest NG.

Tempest NG900 Highlights

- Same proven technology as Tempest NG (2.4) wireless
- Provides an additional wireless option for game day
- No frequency coordination; license-free
- Up to 2 Bases and 10 Belts can be integrated into existing system
- Same user-interface as existing Tempest NG model
- Same customizable features and flexibility as Tempest NG model
- Same batteries and battery chargers
- Same servicing plans and parts as Tempest NG model



System Specifications

RF Frequency	902 to 928 MHz
RF Scheme	FHSS with TDMA
Effective Radiated Power	250mW using 2 dBi antenna
Receiver Sensitivity	-100dBm for 10 ⁻⁵ BER
Radio Certification	FCC Part 15, Canadian RSS-210, license free
Transmission Range	1,000 feet under ideal conditions (500 ft to 900 ft typical)
Audio Dynamic Range	>94dB
Audio Frequency Response	300Hz – 3.8KHz with proprietary audio voice shaping
System Latency	< 60 Ohms direct

BaseStation

Intercom Audio Channels	8
BaseStations per System	2
Full Duplex Beltstation per BaseStation	5
Half Duplex, Shared BeltStations per Base	Unlimited
Number of Antenna Ports per Base	N/A (antenna supplied via Remote Transceiver)
BaseStation/BeltStation Pairing	Via supplied Mini-jack/cable
Programming Port	USB
Stage Announce and GPO Closures	6 relays via DB15
Audio Channel Intercom	4 DA-15s with loop through
Aux Input	¼" 3-conductor jack accepts -4 to +8 dB, balanced, transformer isolated
Aux Output	¼" 3-conductor jack nominal -4 to +8 dB, balanced, transformer isolated
Player Announce Output	XLR-3M, nominal -4 to +8 dB, balanced, Transformer isolated
Front-Panel Headset	4-pin male connector
Microphone Type	Dynamic or Electret, auto-selected
Front-Panel LCD Display	240 x 64 resolution 32 level grayscale
Dimensions (inches)	2-RU unit, H 3.5" x W 19.0" x D 12"
Weight	12.85 lbs
Power Input	AC: 85–264 VAC at 50–60 Hertz, 21 Watts
Operating Environment	-20° to 50° C (-4° to 122° F) 10% to 90% Humidity



BeltStation

Intercom Audio Channels	3
Headset Connector	4-pin Male
Microphone Type	Dynamic or Electret; auto-selected
LCD Display	102 x 80 pixels
Antenna	Internal +2dBi patch antenna
Battery (Life)	Rechargeable Lithium-Polymer (up to 9+ hrs); 3 standard
alkaline cells (approx. 4 hrs)	
Battery Charger	Via mini-USB connector using supplied charger - Input 100-240V, 0.3A, 50-60Hz; Output 5V, 1.2A
Charge Time	2.75 hrs in the BeltStation or 2.5 hrs in the 5-bay charger (from empty)
Optional Power	3 Standard AA alkaline cells (lasts approximately 4 hours)
Dimensions	H 6.1" x W 4.0" x D 1.75"
Weight (w/battery)	14.3 oz
Operating Environment	-20° to 50° C (-4° to 122° F) 10% to 90% Humidity



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