



Tempest NG Sideline Communications

The Tempest NG Sideline Communications system is part of the Tempest® Wireless family of products and is the wireless choice for D1 programs across the nation. The Tempest NG system has successfully performed on the sidelines since 2008. The system offers proven wireless communications and superior audio. Over 95% of FBS schools use our Tempest NG technology including the 2010 and 2009 BCS Champions.

With Tempest NG, there's no frequency coordination required. Tempest NG operates in the license-free 2.4 GHz frequency spectrum. Each Tempest NG system can support up to 15 wireless coaches in full duplex communication as well as an unlimited number of coaches operating in a push-to-talk/listen only state. The Tempest NG product now boasts a new 900 MHz add-on option – Tempest NG900.

System Highlights

- Proven technology used by 95% of D1 programs
- 2.4 GHz frequency-hopping, license-free wireless
- 900 MHz add-on option available (Tempest NG900)
- No frequency coordination
- Superior sound quality
- High dynamic range ideal for high noise environments
- Customizable settings for each coach
- Real-time status of each beltpack displayed on BaseStation & BeltStation LCD
- Up to 8 channels of communication
- Wired Interface Module with built-in ring down and test circuits
- Rechargeable & Removable Lithium-Polymer batteries
- 5-bay battery chargers included
- Durable, weather resistant BeltStation design
- Racked in heavy-duty travel trunks
- In-season, after hours/game day support
- Annual CoachComm College training seminar



System Specifications

RF Frequency	2400 to 2483 MHz (2.4 GHz)
RF Scheme	FHSS with TDMA
Effective Radiated Power	100mW using 2dBi antenna (2.4 GHz)
Receiver Sensitivity	-93 dBm for 10 ⁻⁵ BER (2.4 GHz)
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
Trunk Dimensions (inches)	Press Box (21 x 17.25 x 44); Sideline (43.25 x 30.5 x 38)

BaseStation

Intercom Audio Channels	8
BaseStations per System	3
Full Duplex Beltstation per BaseStation	5
Half Duplex, Shared BeltStations per Base	Unlimited
Number of Antenna Ports per Base	N/A (antennas 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 AA 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

