



Tempest FX Sideline Communications

The Tempest FX system is one of the newest members to the Tempest family. The Tempest FX system proved itself week after week during the 2010 season. The FX system offers proven wireless communications and superior audio at a more affordable price. Many elite programs are in need of a sideline communications system that provides the same flexibility and expandability the top D1 programs use, Tempest FX meets those needs! Over 95% of FBS schools use our Tempest NG technology. Tempest FX offers the same technology with a similar feature set for smaller budgets.

With Tempest FX, there's no frequency coordination required. FX operates in the license-free 2.4 GHz frequency spectrum. Each FX system can support up to 10 coaches with full duplex wireless as well as an unlimited number of coaches operating in a push-to-talk/listen only state. The Tempest family of products provides dramatically better sound quality and secure conversations.



Highlights

- Same proven technology used by 95% of FBS programs
- 2.4 GHz frequency-hopping, license-free wireless
- Simple set-up, no frequency coordination required
- Superior sound quality
- Customizable settings for each user
- Remotely locate antennas up to 1500 feet
- Up to 4 channels of communication
- Rechargeable Lithium-Polymer batteries
- Durable, weather resistant BeltStation design
- Racked in heavy-duty travel trunks
- In-season, after hours/game day support

System Specifications

RF Frequency	2400 to 2480 MHz
RF Scheme	FHSS with TDMA
Effective Radiated Power	100mW using 2dBi antenna
Receiver Sensitivity	-100 dBm 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	Less than 50ms direct
Trunk Dimensions (in)	Press Box (17.5 x 19.75 x 42.625); Sideline (27.25 x 22.25 x 37.5)
Total Weight (lbs)	Approx. 350-400 lbs (racked two-trunk system + accessories)

BaseStation Specifications



Intercom Audio Channels	4
Full Duplex BeltStations per BaseStation	5
Half-Duplex, Shared BeltStations per Base	Unlimited
Number of Antenna Ports per BaseStation	2
Antenna Connector Type	RP-TNC
Number of Synchronized BaseStations	10
BaseStation/BeltStation Pairing	Via supplied Mini-jack/cable
Programming Port	USB
Stage Announce and GPO Closures	6 relays via DB15
2-Wire Intercom Interface	4 channels via XLR-3F with XLR-3M loop thru
2-Wire Compatibility	Clear-Com, RTS, and Balanced compatible
4-Wire/Matrix Connection	4 ports via RJ-45
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
Stage 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)	1-RU unit, H 1.75" x W 19.0" x D 12"
Weight	10.5 lbs
Power Input	AC: 85–264 VAC at 50–60 Hertz, 15 Watts ; DC: Battery, 11–32 VDC, 12 Watts
Operating Environment	-20° to 50° C (-4° to 122° F) □10% to 90% Humidity

BeltStation Specifications

Intercom Audio Channels	4
Headset Connector	4-pin male
Microphone Type	Dynamic or Electret, auto-selected
LCD Display	102 x 80 pixels
Antenna	Internal +2 dBi patch
Charger	Input 100-240V, 0.3A, 50-60Hz Output 5V, 1.25A
Battery Charging	Via Mini USB connector using supplied charger
Battery Life, Rechargeable Lithium-Polymer	Up to 9+ hours
Charge time for Lithium-Polymer battery	2¾ hours in the BeltStation or 2½ hours in the 5 bay charger (from empty)
Optional Power	3 Standard AA alkaline cells; battery life approximately 4 Hours
Dimensions (inches)	H 6.1" x W 4.0" x D 1.75"
Weight (with Lithium-Polymer battery)	14.3 oz
Operating Environment	-20° to 50° C (-4° to 122° F) → 10% to 90% Humidity



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