



## QNT-200 SOFTWARE-DEFINED RADIO

# ASSISTING REAL-TIME DECISION-MAKING

### Low-latency, IP-based networking for the warfighter

The Collins QNT-200 software-defined radio (SDR) provides two-channel networking capability. Designed for size-, weight- and power-constrained platforms, it enables reliable, low-latency networked communications.

The QNT-200 uses the IP-based, dynamic mesh network to maintain situational awareness of all nodes in the network with high efficiency.

It also features a coordination and control function to automatically establish a secondary channel offering high-bandwidth connectivity to transmit and receive time-critical data.

Its low-latency mesh network monitors the data-link availability and network traffic to enable real-time, intelligent decision-making functions. These include the selection of the correct data link, spectrum deconfliction, spectrum allocation, position awareness and antenna beam steering/pointing.



### KEY FEATURES AND BENEFITS

- Small form factor, two-channel, multi-band SDR
- Rugged solution with over 100,000 hours of deployed, in-theater operation
- Provides breakthrough technology enabling high node count and high-bandwidth, mobile networking
- IP-based, low-latency, ad hoc mesh networking
- Supports high-bandwidth connectivity for imagery and full-motion video
- Enables fast, automatic joining and leaving of network by nodes for time-critical information connectivity
- Provides long-range, reliable networking with spectrum-efficient, "on-demand" use of bandwidth

## PHYSICAL CHARACTERISTICS

Length	9.4 in.
Width	4.6 in.
Height	2.3 in.
Weight	4.8 lbs.
Volume	87 in. <sup>3</sup>
Input power	28 VDC
Operating temperature	-40 to 54° C
Storage temperature	-40 to 85° C

## PERFORMANCE CHARACTERISTICS

Frequency	V/UHF and L band
Output power	5 W (V/UHF) 25 W (L band)
Waveforms	Multiple SDR waveforms

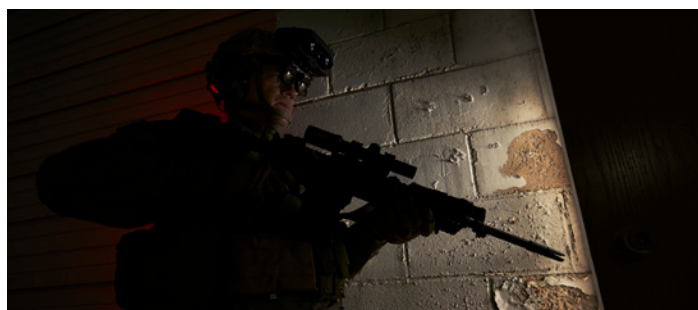
## KEY CAPABILITIES

- Two-channel, multi-band SDR with IP-based, ad hoc, low-latency mesh networking
- Offloads high-bandwidth data to secondary channel
- Capable of intelligent coordination of data links and waveforms
- Mission-critical data prioritization and delivery
- Spectrum-efficient, "on-demand" use of bandwidth
- Capable of delivering voice, data and video to support various missions
- Built-in software to monitor and control network health

## OPTIONAL INSTALLATION EQUIPMENT

- UHF/L-band antennae
- GPS antenna
- Installation kits for multiple configurations (ground fixed, ground mobile, aerostat and pods)

Specifications subject to change without notice.



**Collins Aerospace**

800.321.2223 | +1.319.295.5100

fax: +1.319.378.1172

[learnmore@collins.com](mailto:learnmore@collins.com)