

# QNT-200 miniature data link



The Rockwell Collins ONT-200 miniature data link enables low-latency, spectrum efficient networked communications solutions.

Through flexible, "on-demand" IP-based networking, the ONT-200 provides rapid delivery of mission critical information enabling real time warfighter decision making.

The Rockwell Collins ONT-200 is a two channel software defined radio (SDR) with networking capability designed for SWaP constrained platforms enabling reliable, low latency networked communications. It uses the IP-based dynamic waveform TTNT to maintain situational awareness of all nodes in the network and provide a highly efficient mesh networking capability.

The Rockwell Collins ONT-200 also features a coordination and control function to automatically establish a secondary channel offering high bandwidth connectivity to transmit and receive ISR or time critical data.

Through actively monitoring the TTNT mesh network, the QNT-200 performs "on-demand" offloading to the Dynamic Socket Waveform (DSW) in order to efficiently meet the data transfer needs of today's complex battlefield applications (data, imagery, video).

#### **KEY FEATURES/ BENEFITS**

- > Small form factor two channel multi-band SDR
- > Rugged solution with over 100,000 hours of deployed, in theatre operation
- Provides break-through technology which enables high node count and high bandwidth mobile networking
- > IP based low latency TTNT 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



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# PHYSICAL CHARACTERISTICS

Length	9.4 in
Width	4.6 in
Height	2.3 in
Weight	4.8 lbs
Volume	87 in3
Input power	28 VDC
Operating temperature	-40 to 54°C
Storage temperature	-40 to 85°C

### PERFORMANCE CHARACTERISTICS

Frequency range	VHF 30-88, 118-152 MHz
	UHF 225-400 MHz
	L band 1350-1850 MHz
Output power	5 Watts (V/UHF)
	25 Watts (L-band)
Data rate	2 Mbps at 50 nmi
	500 Kbps at 100 nmi
Waveforms	TTNT, DSW

# **KEY CAPABILITIES**

- Two-channel multi-band SDR with IP based ad-hoc low-latency networking
- > Offloads high bandwidth data to secondary channel
- > Capable of controlling 3rd party data link
- > Mission critical data prioritization and delivery
- > Spectrum efficient "on-demand" use of bandwidth
- Capable of delivering voice, data and video to support various missions (C2, SA, ISR, BDA)
- Built in software to monitor and control the health of the network

# **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.

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#### For more information, contact:

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