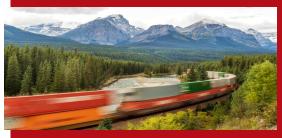
▲ METEORCOMM[®]

Powering the Digital Railroad Network®



Next Generation ITCR^{NG} Wayside Radio

Seamless connectivity with base and locomotive radios for efficient PTC operations.

Model # 65010

High Performance Radio for PTC Applications

Wayside radios are deployed in remote locations and relay field messages between waysides, locomotives, and the back office.

The model 65010 second generation Wayside Radio plays a key role in the PTC eco-system. Designed to address new system requirements, and includes upgraded capabilities to support system capacity, reliability, and security. The radio is fully backwards compatible with the first generation radios.

Key Features

- Meets relevant railroad standards.
- Operates in the 217-220 MHz frequency band to support all railroad I-ETMS communications.
- 25W PEP Transmitter output power.
- 20-channel simultaneous receive.
- Supports multiple waveforms including both 16kbps and 32kbps π /4DQPSK.
- Supports channel bandwidths up to 100kHz.
- Drop-in replacement for MCC 63010 Wayside radio.
- Fully ITCnet[®] compliant.
- Supports peer-to-peer broadcasts (like WIUStatus) which reduces dependency on the back office.

Benefits

- Exchange data seamlessly across railroads with ITCnet® interoperable radio.
- Increased message capacity and efficiency on existing 220MHz band.
- Increased computing resources for additional features and applications.
- Increased capacity for future growth.
- Additional operational support tools.

Meets Industry Standards, and Regulato-

- AAR
- APTA
- ITC/ITCM
- AREMA Environmental and EMC
- FCC (PART 2, PART 15, PART 80, PART 90)



ATEORCOMM®

-		
General	Transmitter	Receiver
Dimensions: 15"X 7.2" X 1.86"	Frequency Range: 217.6 – 222MHz	Frequency Range: 217.6 – 222MHz
Weight: 6.9 lbs (3.1 kg)		
Frequency Range: 217.6 - 222MHz		
Channel Spacings: 25kHz, 50kHz, 100kHz	RF Power Output: 25 WPEP:	Channel Spacing: 25kHz
	Minimum Adjustable 5 WPEP	
 Temperature range: Operating: -40°C to +70°C Storage: -55°C to + 85°C 	Output Impedance: 50 ohms	Channel Bandwidths: 25kHz
Humidity: Operating: 95% Maximum; non-condensing Test per S-5702, clause 3.2.3.2	Modulation Waveforms: 16 and 32 kbps	Input Impedance: 50 ohms
DC Input Voltage Range: 10.9V - 15.5V	Occupied Bandwidth: Meets 47CFR90.210(f)	Simultaneous Receiver Channels: 20
DC Current Drain (13.6VDC input):	Conducted Spurious Emissions:	Sensitivity: (BER = 10-4, Static)
• Transmit: 8A max	<-25dBm max	• 16kbps, π/4DQPSK <-111dBm
Receiver: 2A max while receiving	Francisco Ctability	• 32kbps, π/4DQPSK<-108dBm
DC Power Connector: • WAGO p/n 231-833/001-000	Frequency Stability:	Adjacent Channel Rejection, 25kHz spacing
	-40OC to +70OC +/-0.1 ppm	Analog FM >70dB
		 16kbps, π/4DQPSK >60dB 32kbps, π/4DQPSK >60dB
Antenna Connector: Type N female	Channel Increment Step: 2.5kHz	Spurious Response Rejection: >70dB
		Intermodulation Response Rejection: >65dB
		High Input Level (-7dBm): AGC off BER>10-4
GNSS: Active and passive antennas	Channel Bandwidths: • 25kHz • 50kHz • 100kHz	Blocking - 1MHz Offset, AGC off:
		 16 kbps π/4DQPSK: 80dBm
		• 32 kbps π/4DQPSK: 7dBm
 External interface: Ethernet: LAN1, LAN2, Maintenance [3] Gigabit compliant USB—USB 3 compliant (1) GPIO—Isolated inputs (2), isolated outputs (2), 5V, 50mA supply 	FCC ID: BIB65010	Diversity Support: No
	Emission Designators:	
	 16 kbps π/4DQPSK - 8K90DXW 	
	• 32 kbps π/4DQPSK – 17K80DXW	

Contact Us For Details

Contact our account management team for more information



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