



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 $\pi/4$ DQPSK.
- 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 Regulators

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




General	Transmitter	Receiver
Dimensions: 15"X 7.2" X 1.86" Weight: 6.9 lbs (3.1 kg) Frequency Range: 217.6 - 222MHz	Frequency Range: 217.6 – 222MHz	Frequency Range: 217.6 – 222MHz
Channel Spacings: 25kHz, 50kHz, 100kHz	RF Power Output: 25 WPEP: Minimum Adjustable 5 WPEP	Channel Spacing: 25kHz
Temperature range: <ul style="list-style-type: none"> • 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): <ul style="list-style-type: none"> • Transmit: 8A max • Receiver: 2A max while receiving 	Conducted Spurious Emissions: <-25dBm max	Sensitivity: (BER = 10-4, Static) <ul style="list-style-type: none"> • 16kbps, $\pi/4$DQPSK <-111dBm • 32kbps, $\pi/4$DQPSK<-108dBm
DC Power Connector: <ul style="list-style-type: none"> • WAGO p/n 231-833/001-000 	Frequency Stability: -40OC to +70OC +/-0.1 ppm	Adjacent Channel Rejection, 25kHz spacing Analog FM >70dB <ul style="list-style-type: none"> • 16kbps, $\pi/4$DQPSK >60dB • 32kbps, $\pi/4$DQPSK >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: <ul style="list-style-type: none"> • 25kHz • 50kHz • 100kHz 	Blocking - 1MHz Offset, AGC off: <ul style="list-style-type: none"> • 16 kbps $\pi/4$DQPSK: 80dBm • 32 kbps $\pi/4$DQPSK: 7dBm
External interface: <ul style="list-style-type: none"> • 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 Emission Designators: <ul style="list-style-type: none"> • 16 kbps $\pi/4$DQPSK - 8K90DXW • 32 kbps $\pi/4$DQPSK – 17K80DXW 	Diversity Support: No

Contact Us For Details

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