

Intuicom® MCR-900™

Ruggedized, Water-Resistant 900 MHz Transceiver for Maximum Connectivity

The MCR-900™ is a water-resistant, heavy-duty transceiver designed to maximize data connectivity and throughput for the most challenging environments, such as Machine Control and Construction applications. Both fixed and mobile scenarios will benefit from the MCR-900's robust and secure capabilities.

FUNCTIONALITY AND FLEXIBILITY

Operating at the maximum transmit power allowed by law and without requiring a license, the MCR-900 is the clear alternative to the bandwidth limitations, interference, and licensing expense of UHF radios.

For long-range data transport with continuous throughput of 115Kbps, this versatile solution is unbeatable. In fact, the MCR-900 offers a channel size 15 times larger than UHF, so bandwidth is never a problem for job site applications.

Plus, the MCR-900 is built to take the punishment typical of most job sites. A ruggedized, IP 67 enclosure and wide range of voltage inputs ensure the MCR-900 will keep you connected.



8-pin model shown. 5-pin model and optional mounting plate also available.

SCALABLE NETWORK SOLUTION

Designed to easily integrate with other Intuicom wireless products, the MCR-900 can meet the needs of small as well as more complex communication challenges. Simple configuration, robust performance, and a broad set of support tools enable rapid deployment for any situation.

KEY FEATURES

- All-Weather Operation
- Heavy-Duty, IP 67 Enclosure
- Simple Setup and Operation
- License-Free
- Long-Range Performance with 115 kbps Throughput

COMPATIBILITY

- Compatible with GPS/GNSS RTK equipment worldwide
- Compatible with Leica Controllers and Software and all Intuicom 900 MHz Products, including:
 - RTK Bridge®-C
 - Communicator II
 - 1200 Data Link
 - SLR-900™, and more

APPLICATIONS

- Machine Control/Construction
- Survey
- Precision Agriculture
- Scientific & Industrial Monitoring
- SCADA
- Security

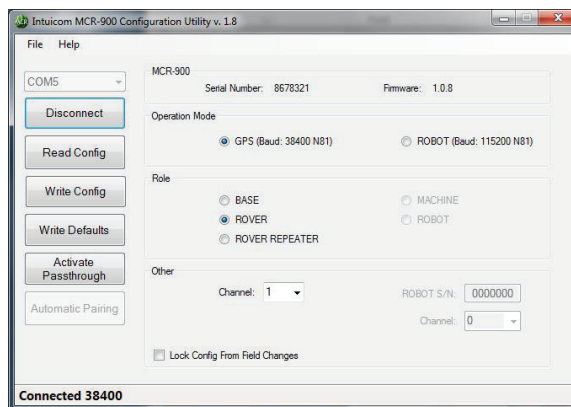
To learn more about best-in-class wireless for your applications, contact us at: info@intuicom.com

COMMON APPLICATIONS

Optimized for GPS and TPS Machine Control applications, the MCR-900 has provided excellent results in a variety of challenging communication applications. Some common commercial and industrial applications include:

- Machine Guidance–GPS and TPS-Based
- Providing data acquisition and control for real-time vehicle tracking
- RTK Bridge Guidance on multiple machines
- Precision Agriculture correction sharing
- Mining applications
- Remote Monitoring
- SCADA

Intuicom's configuration software makes set up and operation easy and fast



GENERAL SPECIFICATIONS

Enclosure	Ruggedized IP-67
Environmentals	
Operating Temperature	-40° C to +70° C
Connectors	
External Antenna	TNC -F
Data Interface	LEMO 8-PIN (Part No. FIP1-900MCR-8); LEMO 5-PIN (Part No. FIP1-900MCR-5)
Input Voltage	12 - 30 VDC
Operating Modes	
Unit Operating Modes	Base, Rover, Rover/Repeater- GPS or TPS modes

WIRELESS TRANSCIVER

Frequency Range	902 - 928 MHz (FHSS/FCC DTS)
Transmitter	
Output Power	5 mW to 1W ; Programmable
Modulation	2-level GFSK
Occupied Bandwidth	230 KHz
Spreading Method	Frequency Hopping
Hopping Patterns	15 per band, 105 total, user selectable
Hopping Channels	50-112 user selectable
Hopping Bands	7, user selectable
Frequency Zones	16 Zones, 7 Channels per Zone
Receiver	
Sensitivity	-108 dBm for BER 10 ⁻⁴
Data Transmission	
Error Detection	32 Bit CRC, retransmit on error
Data Encryption	Dynamic Key Substitution, Proprietary Spread Spectrum Technology
Data Rate** (over the air)	115 Kbps **measured assuming 75% frequency availability

ACCESSORIES

- High Gain Antenna Kit - Includes 33" antenna, antenna mount, and 20' cable.
- Complete Repeater Kit - Includes Intuicom MCR-900, high gain antenna and power cables.
- Multiple mounting options available - Survey clip with threaded back plate standard.

Note: Specifications subject to change without notice.
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