

RFC1000

Wireless RF Transceiver and Repeater

MadgeTech's RFC1000 is a powerful wireless transceiver for use with RFOT and 2000A series data loggers. The RFC1000 transmits to other RFC1000s up to 4000 feet outdoors/line of sight, 1000 feet typical indoors/urban. The RFC1000 transmits to data loggers up to 2000 feet outdoors/line of sight, 500 feet typical indoors/urban. Additional RFC1000s can be used as repeaters to transmit greater distances or around obstacles.

The RFC1000 is designed to communicate between MadgeTech's two-way wireless data loggers and the MadgeTech software and can connect to a maximum of 64 data loggers. Through the use of the software and the RFC1000s, remote data loggers can be started, stopped and downloaded wirelessly. This time saving feature streamlines processes for maximum efficiency.

The RFC1000 also includes an external antenna, allowing more flexibility with mounting positions in both orientation and proximity to metal walls. This may be used as a repeater, or directly plugged into the PC.



Features

- Functions as Both a Repeater and a Transceiver
- Green and Red LED Indicators
- Compatible with MadgeTech's RFOT and 2000A Series Data Loggers

Applications

- Real-Time Data Logging
- Meat Cooking and Cooling
- Meat Storage
- Smoke Houses
- Food Processing
- Medical Storage
- Laboratory Monitoring
- Blood Banks
- Hospitals
- Warehouses

SPECIFICATIONS

Materials	Enclosure: ABS Plastic Cable and Antenna: PVC
Compatible Data Loggers	RFOT and 2000A Series
Transmission Distance (to data loggers)	Unobstructed line-of-sight (outdoors): 2,000 ft max. Typical urban environment (indoors): 500 ft max.
Transmission Distance (to other RFC1000's)	RFC1000: 4,000 ft max. outdoors – line of sight unobstructed 1,000 ft max. indoors – typical urban environment RFC1000-CE: 2,500 ft max. outdoors – line of sight unobstructed 700 ft max. indoors – typical urban environment RFC1000-IP69K: 4,000 ft max. outdoors – line of sight unobstructed 1,000 ft max. indoors – typical urban environment
Frequency Range	2.405 GHz - 2.475 GHz
RF Sensitivity	-95 dBm Typical
Operating Environment	Enclosure: -20 °C to +85 °C (-4 °F to +185 °F) Power Supply: 0 °C to +40 °C (+32 °F to +104 °F)
Dimensions	3.79 in x 1.57 in x 0.81 in (96.3 mm x 39.9 mm x 21 mm) Antenna Overall Height: 8.03 in (204.0 mm)
Weight	5.5 oz (156 g)
Approvals	US (FCC), CA (IC)

Ordering Information

RFC1000	PN 901383-00	Wireless RF transceiver/repeater. USB to mini USB adapter and universal power supply included.
RFC1000-CE	PN 901388-00	Wireless RF transceiver/repeater, CE approved for Europe. USB to mini USB adapter and universal power supply included.
RFC1000-IP69K	PN 901389-00	Splash-proof, IP69K rated, wireless RF transceiver/repeater. USB to mini USB adapter and universal power supply included.

Countries approved for use, purchase and distribution of the RFC1000: USA, Canada, Chile, Colombia, Ecuador, Honduras, India, Malaysia, Mexico, Peru, Singapore, South Africa, Thailand, Venezuela, Vietnam