

OEM Transceiver Module with Crystal Transmitter Installation Instructions

Introduction

The OEM transceiver modules are compatible with Interlogix wireless transmitters and receivers. The modules have an onboard receiver and transmitter, microprocessor, and connection for a daughter board. The microprocessor controls the receiver and transmitter, providing antenna switching and AGC functions. It also analyzes the data from the receiver, validates incoming packets, and returns packets to the controlling device when polled. A daughter board, which communicates with the module via an 8-pin header, can be added to implement a variety of functions.

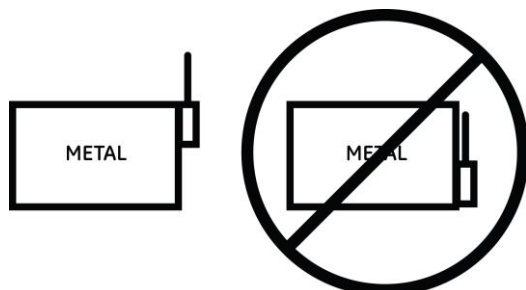
Each module encapsulates the receiver and transmitter functions and formats and presents a common interface to the daughter board. Therefore, even though protocols vary among the Interlogix radio frequencies used around the world, the interface is the same to the daughter board.

Installation Guidelines

Observe the following guidelines when installing the OEM transceiver module:

- Allow at least 9 inches (22.9 cm) of clearance above the enclosure for the antennas.
- Avoid mounting locations that expose the module to moisture.
- Avoid areas with excessive metal or electrical wiring including furnace and utility rooms. If unavoidable, mount on or near metal with the antenna extending above the metallic surfaces as shown in Figure 1.

Figure 1: Mounting on or near metal



- While a transmitter may have an open-air range of 1000 ft. (300 m) or more, the installation site can have a significant effect on the transmitter range. Changing the sensor location may help overcome adverse wireless conditions.

Installation

600-1029 Enclosure

To mount the 600-1029 enclosure, follow the installation instructions provided with the enclosure.

600-0131 or 600-1067 Daughter Board

To attach the 600-0131 or 600-1067 daughter board, follow the installation instructions provided with the daughter board.

600-1046-95 OEM Transceiver Module

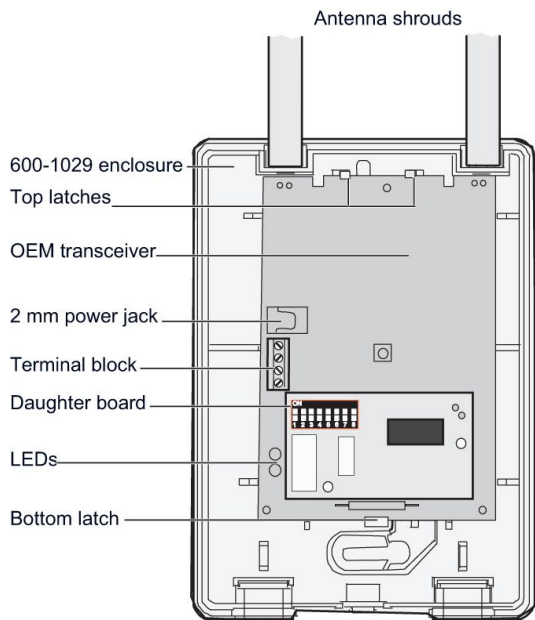
To mount the OEM transceiver module onto the back plate of the 600-1029 enclosure, do the following:

1. Insert the antennas into the antenna shrouds (Figure 2).

Caution: You must be free of static electricity before handling circuit boards. Wear a grounding strap or touch a bare metal surface to discharge static electricity.

2. Gently slide the top of the circuit board under the two top latches.
3. Snap the circuit board in at the bottom latch to secure it in place as shown in Figure 2.

Figure 2: Installing Circuit Board



4. Connect DC power to the OEM transceiver module using 2 mm power jacks (center positive) or connect fly-leads to the terminal block as labeled on the board.

LED Operation

Table 1 shows the LED indications for the OEM transceiver module.

Table 1: OEM Transceiver Module LED Indications

Indication	Green LED	Red LED
Powered up	On	Off
Communication with daughter board	On	Flashing
Valid packet received	One flash off	Off or flashing

Troubleshooting

The following table gives troubleshooting suggestions for the OEM transceiver module.

Table 2: OEM Transceiver Module Troubleshooting

Problem	Action
OEM transceiver module's green and red LEDs are off	<ol style="list-style-type: none"> 1. Check that the transformer is plugged in. 2. Check the transformer to module wiring.
OEM receiver module's green LED is on and the red LED is off	Check the daughter board mounting.

Specifications

Model	600-1046-95
Frequency	319.5 MHz
Compatibility	All 319.5 MHz sensors and 319.5 MHz receivers

Current required (without daughter board)

Typical	45 mA
Maximum	100 mA
Voltage	8 to 15 VDC
Wireless range	1,000 feet (305 m) open air
Operating temperature	32 to 120°F (0 to 49°C)
Storage temperature	-30 to 140°F (-34 to 60°C)
Maximum relative humidity	90% noncondensing

Dimensions 3.2 x 4.6 x 0.6 inches (8.1 x 11.7 x 1.5 cm)

Features Antenna tamper, jam detect, wall tamper, cover tamper

Optional items:

Enclosure	600-1029
USB daughter board	59-873
Repeater daughter board	600-1031 or 600-1067
Stand-off	40-262

Regulatory Information

Manufacturer	UTC Fire & Security Americas Corporation, Inc. 2995 Red Hill Ave, Costa Mesa, CA 92626 USA
FCC / IC compliance	<p>This device complies with FCC Rules Part 15. Operation is subject to the following two conditions:</p> <ol style="list-style-type: none">1. This device may not cause harmful interference.2. This device must accept any interference that may be received, including interference that may cause undesired operation. <p>Changes or modifications not expressly approved by UTC Fire & Security can void the user's authority to operate the equipment.</p> <p>FCC: B4Z-903A3-TCVR IC: 867A-903A3TCVR</p> <p>This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions:</p> <ol style="list-style-type: none">(1) this device may not cause interference, and(2) this device must accept any interference, including interference that may cause undesired operation of the device. <p>Cet appareil est conforme aux normes RSS exemptes de licence d'Industrie Canada. Le fonctionnement est soumis aux deux conditions suivantes: (1) cet appareil ne doit pas causer d'interférences, et (2) cet appareil doit accepter toute interférence, y compris les interférences pouvant provoquer un fonctionnement indésirable de l'appareil.</p>
California code	<p>This product cannot be sold in the state of California if used to receive fire signals (per section 208-g, Chapter 1.5 Construction Materials and Equipment Listings, Title 19, California Code of Regulations (http://osfm.fire.ca.gov/pdf/fireengineering/bml/t-19.pdf)).</p>

Contact information

www.utcfireandsecurity.com or www.interlogix.com

For customer support, see www.interlogix.com/customer-support

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