



600-1025 OEM Transceiver Module Installation Instructions

466-2226B
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Description

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

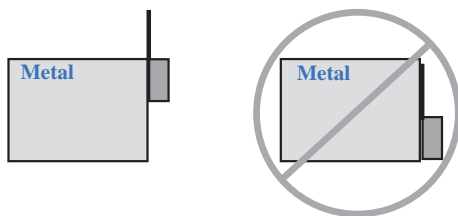
Each module encapsulates the receiver functions and formats and presents a common interface to the daughter board. Therefore, even though protocols vary among the GE Security radio frequencies used around the world, the interface is the same to the daughter board.

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



Note: For UL installations this module must be mounted in the 600-1029 enclosure. *Daughter* boards have not been investigated for use by UL.

Installation

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*).
2. Gently slide the top of the circuit board under the two top latches.

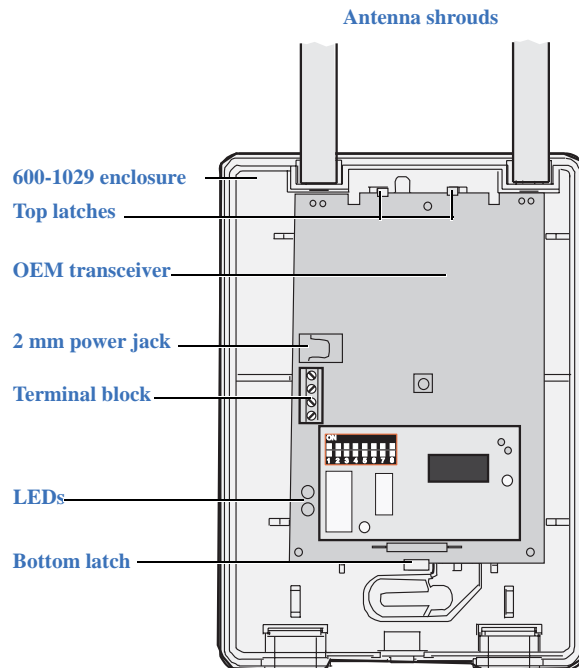


CAUTION

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.

3. Snap the circuit board in at the bottom latch to secure it in place as shown in *Figure 2*.

Figure 2. Installing the circuit board



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

Note: For model 600-1025-02-43, the cable length must be less than 3 m (9.8 ft.) for CE compliance.

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	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.

FCC compliance

This device complies with FCC Rules Part 15. Operation is subject to the following two conditions:

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.

Changes or modifications not expressly approved by GE Security can void the user's authority to operate the equipment.

Specifications

Models	600-1025-02-95R and 600-1025-02-43
Frequency	
600-1025-02-95R	319.5 MHz
600-1025-02-43	433.92 MHz
Sensor compatability	
600-1025-02-95R	All 319.5 MHz sensors
600-1025-02-43	All 433 MHz sensors
Power required (without daughter board)	
Typical	45mA
Maximum	100mA
Wireless range	1,000 feet (305 m)
Listings	
600-1025-02-95R	UL (985 1023), FCC ID (B4Z-875-TCVR), DoC, IC: 867-875CVR
600-1025-02-43	CE
Operating temperature	32 to 140°F (0 to 60°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
Enclosure	600-1029
USB adaptor	59-873
Repeater adaptor	600-1031
Stand-off	40-262

CE declaration of conformity



Manufacturer's name:	GE Security
Manufacturer's address:	1275 Red Fox Road Arden Hills, MN 55112 USA
EU representative:	GE Security B.V. Kelvinstraat 7 6003 DH Weert The Netherlands
Product identification:	Product: 433 MHz OEM Transceiver Model number: 600-1025-02-43 Brand: GE Security
R&TTE directive:	
EMC:	TUV 0123 / GE Security Test report reference: CEQP-600-1025-02-43 Applied standards: EN50130-4 (1995) +A1 (1998)
Safety:	GE Security Test report reference: CEQP-600-1025-02-43 Applied standards: EN60950-1:2001
Radio:	TUV 0123 Test report reference: CEQP 600-1025-02-43 Applied standards: EN300220-3 v1.1.1 (09-2000)
Equipment class identifier:	None (class 1 product) (RF products falling under the scope of R&TTE)

Means of conformity

We declare under our sole responsibility that this product is in conformity with Directive 93/68/EEC (Marking) and/or complies to the essential requirements and all other relevant provisions of the 1999/5/EC (R&TTE) based on test results using (non) harmonized standards in accordance with the Directives mentioned.

Technical support

Toll-free: 888.437.3287 (US including Alaska and Hawaii; Puerto Rico; Canada)
Outside the toll-free area: Contact your local dealer.