

FCC Modular Integration Instructions

FCC ID: P9R-10154953

Module: G1 RFID Board

Approval Type: Limited Single Modular Approval

Rule Part: 47 CFR Part 15.225

1. Scope

This document provides OEM integration instructions for the G1 RFID Board, FCC ID P9R-10154953.

The module is approved as a limited single modular transmitter and shall be installed only in accordance with these instructions.

2. Module Approval Basis

The original modular approval, uses an integrated PCB trace antenna, operates from an on-board regulated 3.3 V supply, and was evaluated for a G1 host configuration. The module is unshielded.

Because the module is unshielded, the final host environment remains part of the compliance basis.

2.2 List of applicable FCC rules

This integration is subject to 47 CFR Part 15.225, 47 CFR §15.212, 47 CFR §15.203 and 15.204, 47 CFR §2.1043, applicable FCC RF exposure requirements, and Part 15 Subpart B for the final host, if applicable.

2.3 Summarize the specific operational use conditions

The module is for OEM installation only, shall be powered consistent with the approved 3.3 V regulated supply approach, and shall be used only in a host configuration consistent with the original approval basis.

2.4 Limited module procedures

This module is a limited modular approval because it does not meet the shielding condition of 47 CFR §15.212(a)(1)(i).

If it is used in an existing host, the grantee or responsible party shall evaluate the change under FCC permissive change guidance and file as required.

If it is used in a new host, a Class II permissive change is required before marketing unless the TCB or FCC directs another authorization path.

Host validation should confirm fundamental compliance for Part 15.225 operation, applicable band-edge conditions, and out-of-band and spurious radiated emissions.

2.5 Trace antenna designs

Not applicable for host implementation.

The antenna is integrated into the module itself as a PCB trace antenna and shall not be modified, extended, or replaced by the host integrator.

2.6 RF exposure considerations

FCC ID P9R-10154953 was evaluated for RF exposure in an approved host configuration that may include co-located transmitters operating under separate FCC certifications. The RF exposure assessment supporting this authorization was based on the transmitter configurations, antenna arrangements, operating modes, and maximum power levels identified in the approved integration documentation.

The approved co-location conditions may include the following transmitters:

Radio	Frequency Band	Maximum Power	FCC ID
Bluetooth	2.4 GHz	8 dBm	SQGBT850
RFID	13.56 MHz	24.1 dBm	P9R-10154953
LRR (Optional)	915 MHz	26.96 dBm	RPN-10184341
802.15.4	2.4 GHz	20 dBm	P9R-BCN

This module is approved only for host configurations consistent with the RF exposure conditions evaluated during certification. Modifications to transmitter configuration, output power, antennas, RF routing, co-location, simultaneous transmission, or host installation may require additional RF exposure evaluation and/or FCC authorization updates.

2.7 Antennas

Only the integrated PCB trace antenna that is part of the approved module may be used with FCC ID P9R-10154953.

No external, substitute, user-replaceable, or host-designed antenna is permitted.

2.8 Label and compliance information

The module has a permanently affixed FCC ID label.

If the FCC ID is not visible after installation, the host exterior shall be labeled: "Contains FCC ID: P9R-10154953."

2.9 Information on test modes and additional testing requirements

Each host integration shall be assessed in the final production configuration using representative worst-case operating modes.

Testing shall address Part 15.225 transmitter compliance and any host-induced changes to emissions or RF exposure.

2.10 Additional testing, Part 15 Subpart B disclaimer

The transmitter module grant does not relieve the host manufacturer of responsibility for compliance of the final product with any other applicable FCC requirements.

The final host product shall be evaluated for Part 15 Subpart B compliance, if applicable.

3. Required host statement

This product contains transmitter module FCC ID: P9R-10154953.

Installation of this module is limited to OEM integrators following the grantee's FCC module integration instructions.