

Railway EMC Certificate of Conformity

We of:

Logic Supply, Inc.
35 Thompson Street
South Burlington, VT 05403
USA

Logic Supply, BV
De Boedingen 39,
4906 BA Oosterhout
The Netherlands

in accordance with the following Directive(s):

- Electromagnetic Compatibility (2014/30/EU)

hereby declare that:

Equipment: **Rugged Fanless PC model(s): xxxxxK700xxxxxxxxxxxxxxxx** (where x is any alphanumeric character, "-" or blank designating configuration differences)

was measured for compliance with:

- **EN 50121-3-2:2019**, "Railway Applications – Electromagnetic Compatibility – Part 3-2: Rolling Stock – Apparatus (2019)

Test Summary

All EN 50121-3-2 testing on the equipment was performed without the use of an AC-DC external power adapter. Direct DC power input was used.

"A" result = No effect on EUT.

"C" result = Operator intervention required.

Type	Conditions	Spec.	Results
Radiated Emissions	<i>Frequency range: 30 MHz to 230 MHz Limit: 40 dBuV quasi-peak @ 10 meters</i>	A	A
Radiated Emissions	<i>Frequency range: 230 MHz to 1 GHz Limit: 47 dBuV quasi-peak @ 10 meters</i>	A	A
Conducted Emissions	<i>Frequency range: 150 kHz to 500 kHz Limit: 99 dBuV quasi-peak</i>	A	A
Conducted Emissions	<i>Frequency range: 0.5 MHz to 30 MHz Limit: 93 dBuV quasi-peak</i>	A	A
Electrostatic Discharge	<i>Test Voltage: 6-kV contact/8-kV air</i>	A	A
Radiated Immunity	<i>Frequency Range: 80 MHz to 1 GHz Field Strength: 20 V/m</i>	A	A



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Radiated Immunity	<i>Frequency Ranges: 1.4 – 2.0 GHz/2.0 – 2.7 GHz/5.1 – 6.0 GHz</i> <i>Field Strength: 10/5/3 V/m</i>	A	A
Electrical Fast Transient Immunity	<i>Voltage Peak: 2-kV on power lines</i> <i>Rise/Half Value Times: 5/50 ns</i> <i>Repetition Rates: 5-kHz nominal (100-kHz for DSL line)</i>	A	A
Electrical Fast Transient Immunity	<i>Voltage Peak: 2-kV on signal lines</i> <i>Rise/Half Value Times: 5/50 ns</i> <i>Repetition Rates: 5-kHz nominal (100-kHz for DSL line)</i>	A	A
Surge Immunity	<i>AC Voltage Peak: 1-kV line-to-line</i> <i>Rise/Half Value Times: 1.2/50 us</i>	A	A
Surge Immunity	<i>AC Voltage Peak: 2-kV line-to-ground</i> <i>Rise/Half Value Times: 1.2/50 us</i>	A	A
Conducted Immunity	<i>Frequency range: 150 kHz to 80 MHz</i> <i>Voltage: 10-V power/signal</i>	A	A

Reference test report: GM219039c

By:

Jeremy Psaute Date 2019-08-15
Jeremy Psaute
Regulatory Engineer