

Information about the Applicant

Company Name	Intermec Technologies Corporation
Grantee	Dave Fry
Address	550 Second Street SE
City, State, Zip	Cedar Rapids, Iowa 52401
Job Number	ITRM0056
Model	IM3 installed in IF6 and IV6
FCC ID	EHARFID915PCC-6
Agent	none
Approval Type	Class II Permissive Change
Equipment Class	DSS Part 15, Spread Spectrum Transmitter
Rule Part	15.247HOP

Overview

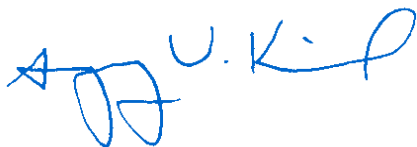
Intermec Technologies Corporation is seeking a Class II Permissive Change authorization of FCC ID: EHARFID915PCC-6. A new antenna (Kathrien 4.4 dBi panel) is being added to the filing. Also, approval is sought for a mobile co-location configuration. Otherwise, the transmitter remains a 1-Watt, 915 MHz FHSS radio operating under FCC rules 47 CFR 15.247. The radio section of the PC Card remains unchanged and continues to operate as originally certified.

A complete report is included showing the radiated spurious emissions when using the new antenna. The margins for compliance are slightly lower than originally granted. The reporting of emissions data is per the FCC rules for Permissive Changes. Antenna specifications and RF safety issues are also addressed within the report.

A second EMC report addresses collocation with a Bluetooth radio module, FCC ID: HN2-C30XX. It shows compliance during simultaneous transmission with the Bluetooth radio in a mobile configuration.

Recommendation

All items have been resolved and completed to my satisfaction; therefore I recommend this application for approval.

Signature

2/10/2005

Greg Kiemel, TCB Committee

Findings	
Specification	Finding
47 Cfr 15.203	Antenna Requirement
Finding	Could not find a description of the unique antenna connector. Also, it was unclear if both the stand-alone and co-located configurations used the same antenna.
Resolution	The client provided an updated cover letter that addresses these items. Also the test reports had already stated, in the Antenna Requirements section, that the IM3 PC Card radio is enclosed within the antenna ray-dome so there is no external RF connector

Opinions	
Specification Requirements	Description
47 Cfr 2.1033(b)(3)	Installation guide, operating instructions, user manual
Opinion	The device meets the requirements of the rule.
Discussion	The client has provided the necessary exhibit.
Reference	User Info and Compliance Statement.pdf, Co-location User Info and Compliance Statement.pdf

Specification Requirements	Description
47 Cfr 2.1033(b)(6)	Test Report
Opinion	The device meets the requirements of the rule.
Discussion	The client has provided the necessary exhibit.
Reference	Test Report.pdf, Co-location Test Report.pdf

Specification Requirements	Description
47 Cfr 2.1033(b)(6)	Conversions showing how the test results were achieved
Opinion	The device meets the requirements of the rule.
Discussion	The client has provided the necessary exhibit.
Reference	Test Report.pdf, Co-location Test Report.pdf

Specification Requirements	Description
47 Cfr 2.1033(b)(7)	Internal and external photos
Opinion	The device meets the requirements of the rule.
Discussion	The client has provided the necessary exhibit.
Reference	Internal Photos.pdf, External Photos.pdf, Co-location Internal Photos.pdf, Co-location External Photos.pdf

Specification Requirements	Description
Required Exhibit	Test Setup Photo Exhibit
Opinion	The device meets the requirements of the rule.
Discussion	The client has provided the necessary exhibit.
Reference	Test Setup Photos.pdf, Co-location Test Setup Photos.pdf

Specification Requirements	Description
47 Cfr 1.1307(b),2.1091,2.1093	RF Exposure Hazard
Opinion	The device meets the requirements of the rule.
Discussion	The client has provided the necessary exhibit.
Reference	RF Exposure.pdf, Co-location RF Exposure.pdf

Specification Requirements	Description
47 Cfr 15.19	Labeling
Opinion	The device meets the requirements of the rule.
Discussion	The client has provided the necessary exhibit.
Reference	User Info and Compliance Statement.pdf, Co-location User Info and Compliance Statement.pdf

Specification Requirements	Description
47 Cfr 15.33	Frequency range of tests
Opinion	The device meets the requirements of the rule.
Discussion	The client has provided the necessary exhibit.
Reference	Test Report.pdf, Co-location Test Report.pdf

Specification Requirements	Description
47 Cfr 15.35	Measurement detectors
Opinion	The device meets the requirements of the rule.
Discussion	The client has provided the necessary exhibit.
Reference	Test Report.pdf, Co-location Test Report.pdf

Specification Requirements	Description
ANSI C63.4 EUT Ports	All EUT ports populated, emissions maximized, Antenna height adjusted
Opinion	The device meets the requirements of the rule.
Discussion	The client has provided the necessary exhibit.
Reference	Test Report.pdf, Co-location Test Report.pdf

Specification Requirements	Description
47 Cfr 15.203	Antenna Requirements
Opinion	The device meets the requirements of the rule.
Discussion	The client has provided the necessary exhibit.
Reference	Cover Letter.pdf, Test Report.pdf, Co-location Test Report.pdf, External Photos.pdf, Co-location External Photos.pdf

Specification Requirements	Description
47 Cfr 15.205	Restricted bands
Opinion	The device meets the requirements of the rule.
Discussion	The client has provided the necessary exhibit.
Reference	Test Report.pdf, Co-location Test Report.pdf

Specification Requirements	Description
47 Cfr 15.207	Power line Conducted emissions
Opinion	The device meets the requirements of the rule.
Discussion	The client has provided the necessary exhibit.
Reference	Co-location AC Conducted Test Data.pdf

Specification Requirements	Description
47 Cfr 15.209	Spurious Emissions
Opinion	The device meets the requirements of the rule.
Discussion	The client has provided the necessary exhibit.
Reference	Test Report.pdf, Co-location Test Report.pdf

Specification Requirements	Description
47 Cfr 15.247	Operation within specified bands
Opinion	The device meets the requirements of the rule.
Discussion	The client has provided the necessary exhibit.
Reference	Test Report.pdf, Co-location Test Report.pdf

Specification Requirements	Description
47 Cfr 15.247(d)	Spurious Radiated Emissions
Opinion	The device meets the requirements of the rule.
Discussion	The client has provided the necessary exhibit.
Reference	Test Report.pdf, Co-location Test Report.pdf