

Information about the Applicant

Company Name	Intermec Technologies Corporation
Grantee	Dave Fry
Address	550 Second St. SE
City, State, Zip	Cedar Rapids, IA 52401-2023
Job Number	ITRM0128
Model	DHIB
FCC ID	EHADHIB
Agent	Northwest EMC, Inc.
Approval Type	Original
Equipment Class	DTS Digital Transmission System
Rule Part	15.247DSSS

Industry Canada Information

Model	DHIB
Industry Canada ID	1223A-DHIB
Rule Part	RSS210

Overview

Northwest EMC Inc is submitting this application for the original certification of Intermec's combination radio module, FCC ID: EHADHIB. The radio, M/N: DHIB, operates in the 2400-2483.5MHz band as a Bluetooth radio and an 802.11(b)/(g) radio. The radio is seeking full modular approval and was tested in a stand-alone configuration.

The radio utilizes a single antenna for the Bluetooth portion of the radio and for the 802.11(b)/(g) portion of the radio. Intermec Technologies Corporation has provided antenna gain information over the 2400MHz frequency band. For final use, the antenna will be internal to the device it is installed in, thus satisfying the requirements of 47 CFR 15.203.

The technical reports and exhibits demonstrate compliance of the Bluetooth portion of the radio with FCC rules 47 CFR 15.247 as a hybrid transmitter. For reference, please see the third example (highlighted) in the attached FCC interpretation. The reports and exhibits also demonstrate compliance of the 802.11(b)/(g) portion of the radio with FCC rules 47 CFR 15.247.

Recommendation

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

Signature

Dean Ghizzone, TCB Committee
9/6/2006

Findings

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 Manual.pdf

Specification Requirements	Description
47 Cfr 2.1033(b)(4)	Operational description
Opinion	The device meets the requirements of the rule.
Discussion	The client has provided the necessary exhibit.
Reference	Operational Description.pdf

Specification Requirements	Description
47 Cfr 2.1033(b)(5)	Frequency block diagram and Schematic diagram
Opinion	The device meets the requirements of the rule.
Discussion	The client has provided the necessary exhibit.
Reference	Block Diagram.pdf,Schematics.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	Report-ITRM0128.pdf, Report-ITRM0128.1.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	Report-ITRM0128.pdf, Report-ITRM0128.1.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

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	Report-ITRM0128 Test Setup Photos.pdf, ITRM0128.1 Test Setup Photos

Specification Requirements	Description
47 Cfr 1.1307(b),2.1091,2.1093	RF Exposure Hazzard
Opinion	The device meets the requirements of the rule.
Discussion	The client has provided the necessary exhibit.
Reference	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	Compliance Insert.pdf, FCC ID Label.pdf

Specification Requirements	Description
47 Cfr 15.21	Information for user
Opinion	The device meets the requirements of the rule.
Discussion	The client has provided the necessary exhibit.
Reference	User Manual.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	Report-ITRM0128.pdf, Report-ITRM0128.1.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	Report-ITRM0128.pdf, Report-ITRM0128.1.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	Report-ITRM0128.pdf, Report-ITRM0128.1.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	Antenna Info.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	Report-ITRM0128.pdf, Report-ITRM0128.1.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	Report-ITRM0128.pdf, Report-ITRM0128.1.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	Report-ITRM0128.pdf, Report-ITRM0128.1.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	Report-ITRM0128.pdf, Report-ITRM0128.1.pdf

Specification Requirements	Description
47 Cfr 15.247(a)	Occupied Bandwidth
Opinion	The device meets the requirements of the rule.
Discussion	The client has provided the necessary exhibit.
Reference	Report-ITRM0128.pdf, Report-ITRM0128.1.pdf

Specification Requirements	Description
47 Cfr 15.247(b)	Output Power
Opinion	The device meets the requirements of the rule.
Discussion	The client has provided the necessary exhibit.
Reference	Report-ITRM0128.pdf, Report-ITRM0128.1.pdf

Specification Requirements	Description
47 Cfr 15.247(d)	Band Edge Compliance
Opinion	The device meets the requirements of the rule.
Discussion	The client has provided the necessary exhibit.
Reference	Report-ITRM0128.pdf, Report-ITRM0128.1.pdf

Specification Requirements	Description
47 Cfr 15.247(d)	Spurious Conducted Emissions
Opinion	The device meets the requirements of the rule.
Discussion	The client has provided the necessary exhibit.
Reference	Report-ITRM0128.pdf, Report-ITRM0128.1.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	Report-ITRM0128.pdf, Report-ITRM0128.1.pdf

Specification Requirements	Description
47 Cfr 15.247(e)	Power Spectral Density
Opinion	The device meets the requirements of the rule.
Discussion	The client has provided the necessary exhibit.
Reference	Report-ITRM0128.pdf, Report-ITRM0128.1.pdf

Specification Requirements	Description
CB-03 6.0	Labeling Requirements
Opinion	The device meets the requirements of the rule.
Discussion	The client has provided the necessary exhibit.
Reference	FCC ID Label.pdf

Specification Requirements	Description
RSS210 RSS310	Spurious Emissions Requirements
Opinion	The device meets the requirements of the rule.
Discussion	The client has provided the necessary exhibit.
Reference	Report-ITRM0128.pdf, Report-ITRM0128.1.pdf