

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

Industry Canada Information	
<b>Model</b>	DHIB
<b>Industry Canada ID</b>	1223A-DHIB
<b>Rule Part</b>	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

<b>Specification Requirements</b>	<b>Description</b>
<b>ANSI C63.4 EUT Ports</b>	All EUT ports populated,emissions maximized,Antenna height adjusted
<b>Opinion</b>	The device meets the requirements of the rule.
<b>Discussion</b>	The client has provided the necessary exhibit.
<b>Reference</b>	Report-ITRM0128.pdf, Report-ITRM0128.1.pdf

<b>Specification Requirements</b>	<b>Description</b>
<b>47 Cfr 15.203</b>	Antenna Requirements
<b>Opinion</b>	The device meets the requirements of the rule.
<b>Discussion</b>	The client has provided the necessary exhibit.
<b>Reference</b>	Antenna Info.pdf

<b>Specification Requirements</b>	<b>Description</b>
<b>47 Cfr 15.205</b>	Restricted bands
<b>Opinion</b>	The device meets the requirements of the rule.
<b>Discussion</b>	The client has provided the necessary exhibit.
<b>Reference</b>	Report-ITRM0128.pdf, Report-ITRM0128.1.pdf

<b>Specification Requirements</b>	<b>Description</b>
<b>47 Cfr 15.207</b>	Power line Conducted emissions
<b>Opinion</b>	The device meets the requirements of the rule.
<b>Discussion</b>	The client has provided the necessary exhibit.
<b>Reference</b>	Report-ITRM0128.pdf, Report-ITRM0128.1.pdf

<b>Specification Requirements</b>	<b>Description</b>
<b>47 Cfr 15.209</b>	Spurious Emissions
<b>Opinion</b>	The device meets the requirements of the rule.
<b>Discussion</b>	The client has provided the necessary exhibit.
<b>Reference</b>	Report-ITRM0128.pdf, Report-ITRM0128.1.pdf

<b>Specification Requirements</b>	<b>Description</b>
<b>47 cfr 15.247</b>	Operation within specified bands
<b>Opinion</b>	The device meets the requirements of the rule.
<b>Discussion</b>	The client has provided the necessary exhibit.
<b>Reference</b>	Report-ITRM0128.pdf, Report-ITRM0128.1.pdf

<b>Specification Requirements</b>	<b>Description</b>
<b>47 Cfr 15.247(a)</b>	Occupied Bandwidth
<b>Opinion</b>	The device meets the requirements of the rule.
<b>Discussion</b>	The client has provided the necessary exhibit.
<b>Reference</b>	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