

Information about the Applicant

Company Name	Intermec Corp.
Address	6001 36 th Avenue West
City, State, Zip	Everett, WA 98203-9280
Requested By	Carl Turk
Job Number	INMC0015
Model	EASYLAN
FCC ID	HN2EASYLAN
Agent	Applicant
Approval Type	Reference Northwest EMC Technical Report – General Information
Equipment Type	Reference Northwest EMC Technical Report – General Information
Rule Part	Reference Northwest EMC Technical Report – General Information

Overview

This RF module is compliant with IEEE 802.11b specifications, and will be used only in the applicant's printers as a mobile transmitter. Limited modular approval is sought for use in printer models 3400E400 and 4400. The Troy Group was previously granted certification for this same radio module (FCC ID: PTY90148). The applicant is not seeking to modify or alter the Troy Group grant in any way. A separate technical report prepared by CKC for the Troy Group application documents compliance of the radio. The applicant certifies that the radios described in both technical reports are identical. The applicant has provided attestations supporting that certification. The only changes the applicant is proposing are for three different antennas and to operate it in a group of Intermec printers. Since no other changes have been made, only those tests that are directly affected were repeated, the approval will be based upon the previous testing for all other tests. That information has been reviewed, but taken at face value as an approved product.

General Comments

Item	The TCB 410, Application for Certification, is incorrect, it states 0.513 mW for output power, this was based upon the original application and grant. CKC and Troy group have provided correspondence that confirms the error and has committed to correct the problem. A corrected application must be submitted.
Resolution	A corrected Application has been submitted.
Item	The operation description states 1000 mW, this is not consistent with the other information provided and needs to be corrected.
Resolution	A corrected operation description has been submitted.
Item	Provide statement that provides evidence that the antenna meets the requirements of 47 CFR, 15.203.
Resolution	Additional information has been submitted, reference exhibit I.

Opinion

Specification Requirements	Description
15.207	Conducted Emissions

Opinion: The Equipment meets the intent specified by the requirements listed above.

Discussion: The Applicant has submitted test results in the form of a test report.

Reference: Exhibit L

Specification Requirements	Description
15.247(a)	Bandwidth

Opinion: The Equipment meets the intent specified by the requirements listed above.

Discussion: The Applicant has submitted test results in the form of a test report

Reference: Exhibit L

Specification Requirements	Description
15.247(b)	Power Output

Opinion: The Equipment does not meet the intent specified by the requirements listed above.

Discussion: The Applicant has submitted test results in the form of a test report. This is an RF conducted test, unless the antenna conducted test cannot be performed, this test is to be conducted using a direct connection between the antenna port of the EUT and the spectrum analyzer. No direct connect data has been provided. In addition, this application has been based upon the previous application and approval. That application and approval has been found to be incorrect. It is assumed that based upon the correspondence provided from CKC and Troy group that it was simply a mistake and that the radio has really not changed. To ensure that we can substantiate the previous test report, provide the required direct connect output power measurements. Also provide calculations supporting the previous data, demonstrating correlation between those previous measurements and the newly acquired data. Assuming these two measurements provide reasonable correlation, no additional testing will be required.

Reference: Exhibit L

Resolution: Output power measurements have been submitted. Additional calculations have also been submitted to support the original data in the CKC report. Reference Exhibit X for the additional information.

Specification Requirements	Description
15.247(c)	Spurious Emissions, Antenna Conducted

Opinion: The Equipment does not meet the intent specified by the requirements listed above.

Discussion: The Applicant has submitted no test data for this requirement. This is an RF conducted test, unless the antenna conducted test cannot be performed, this test is to be conducted using a direct connection between the antenna port of the EUT and the spectrum analyzer. No direct connect data has been provided. Please provide antenna port conducted data as required by 47 CFR 15.247(c).

Reference: Exhibit Y

Resolution: Antenna conducted spurious emissions data has been submitted. Reference Exhibit Y for the additional

Specification Requirements	Description
15.247(c)	Spurious Emissions, Radiated Emissions

Opinion: The Equipment meets the intent specified by the requirements listed above.

Discussion: The Applicant has submitted test results in the form of a test report.

Reference: Exhibit R, Exhibit S, Exhibit T

Specification Requirements	Description
15.247(d)	Power Spectral Density

Opinion: The Equipment meets the intent specified by the requirements listed above.

Discussion: The Applicant has submitted test results in the form of a test report

Reference: Exhibit L

Specification Requirements	Description
15.247(e)	Processing Gain

Opinion: The Equipment meets the intent specified by the requirements listed above.

Discussion: The Applicant has submitted test results in the form of a test report

Reference: Exhibit Q

Specification Requirements	Description
15.247(b)(4)	RF Exposure

Opinion: The Equipment meets the intent specified by the requirements listed above.

Discussion: The Applicant has submitted MPE estimates demonstrating compliance.

Reference: Exhibit I