

## Information about the Applicant

Company Name	Idmicro, Inc.
Address	1019 Pacific Ave
City, State, Zip	Tacoma, WA 98402
Requested By	Thomas Kerns
Job Number	IDMI0001
Model	4120
FCC ID	QYT-4120
Agent	Northwest EMC, Inc.
Approval Type	Certification
Equipment Type	Unlicensed Low Power Transmitter
Rule Part	15.247

## Overview

This application is for the certification of IDMicro's 4120 Interrogator transmitter, FCC ID: QYT-4120. It operates from 2403.4 – 2480.2 MHz (center frequency to center frequency), with a peak conducted output power of 631 mW. It is a hybrid spread spectrum transmitter that utilizes both frequency hopping and direct sequence modulation techniques. It will be used as the interrogator for an RF ID tag system. Please note that this is the exact same device that was previously certified by Micron Communications Inc (FCC ID: LC6-4120, original grant date 6/16/1998). Micron licensed this device to IDMicro (see attachment) who is now seeking authorization using the same technical exhibits provided with the original Micron filing. Because of the age of the Micron application, the FCC no longer has records to access, so a change of FCC ID per 2.933(b) was not possible. (see email thread with the FCC, exhibit I). Every effort has been made to provide the original filings and Class II filings that were made by Micron, plus the new FCC ID label, user manual, and photos for this application. All the items required per 2.1033 have been provided. The technical reports and exhibits demonstrate compliance with FCC rules 47 CFR 15.247 and FCC 97-114.

## Recommendation

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



8/25/2003

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 Dave Tolman, Q.A. Manager

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 Date

**Findings and Resolution**

<b>Item</b>	The RF exposure information is missing.
<b>Resolution</b>	The RF exposure information was provided.

## Opinion

Specification Requirements	Description
15.247	RF Exposure

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

**Discussion:** The Applicant has submitted an RF Exposure Exhibit.

**Reference:** Exhibit H

Specification Requirements	Description
15.247(a)(2)/15.247(a)(1)	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 K

Specification Requirements	Description
15.247(b)	Power Output

**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 K, M

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

**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 K

Specification Requirements	Description
15.205, 15.209, 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 K, M, N

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 K

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 K

Specification Requirements	Description
15.247	The system receivers shall have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shall shift frequencies in synchronization with the transmitted signals

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

**Discussion:** The operational description shows the equipment meets the requirements shown above.

**Reference:** The equipment has already been granted approval by the FCC. Exhibit K,P

Specification Requirements	Description
15.247	Pseudorandom hop sequence

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

**Discussion:** The operational description shows the equipment meets the requirements shown above.

**Reference:** The equipment has already been granted approval by the FCC. Exhibit K

Specification Requirements	Description
15.247	Equal use of each frequency

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

**Discussion:** The operational description shows the equipment meets the requirements shown above.

**Reference:** The equipment has already been granted approval by the FCC. Exhibit K