

**NORTHWEST EMC, INC.**  
22975 NW Evergreen Parkway, Suite 400  
Hillsboro, OR 97124

November 19, 2004

Dear Application Examiner:

On behalf of IDMicro, Northwest EMC Inc is submitting this application for the Class 2 Permissive Change of IDMicro's 4120 Interrogator transmitter, FCC ID: QYT-4120. It operates in the 2.4 GHz band as a hybrid spread spectrum transmitter that utilizes both frequency hopping and direct sequence modulation techniques. It is used as the interrogator for an RF ID tag system.

The attached letter from the grantee describes the Class II permissive changes that were made. In order to differentiate the new configuration from the old, the model number for the new configuration is 4120R.

The technical reports and exhibits demonstrate compliance with FCC rules 47 CFR 15.247 and FCC 97-114.

Your efforts in reviewing this application are greatly appreciated.

Best regards,

A handwritten signature in blue ink, appearing to read "G. Kiemel".

Greg Kiemel, Director of Engineering  
Northwest EMC, Inc.

15 October, 2004

Northwest EMC  
22975 NW Evergreen Pkwy, Ste. 400  
Hillsboro, OR 97124

To Whom It May Concern:

Based on previous conversations, IDmicro would like to convey the following information to Northwest EMC:

1. IDmicro is seeking approval for the IDM4120R Hybrid Tag Reader. This reader is identical in RF operations to the 4120 we have an existing grant for but changes to the RF board(s) have been made.
2. The device outputs uses the same digital board and the RF section has been broken into two boards. The frequencies output, amplifiers, and hopping patterns are identical to the previous unit. In addition, the switches used previously to route the signal have been eliminated and the amplifiers are operated at a lower level.
3. We will be requesting approval for multiple antennas for both mobile and fixed installations. We are currently discussing this with your technical staff.
4. IDmicro has obtained an FCC Reg.# of 8580011 and a grantee code of QYT
5. The FCC identifier for this unit is QYT-4120.

We will be sending a series of emails or a CD that contain the information required for this effort as listed in e-mails from Northwest EMC to IDmicro. In addition, we will be available to help with the setup and operation for the measurement process.

If you have any questions, please feel free to email Tom Kearns or to call him or myself at 253-396-1479.

Sincerely,

*Robert W. Grenley*  
Robert W. Grenley