



## **Modular Approval Request Letter**

Date: 7 July 2010

Dear Application Examiner

Cyan Technology would like to have your authorisation as modular approval for our mCOG-RF-1X-M2c-915 module FCC ID: YHZM1XM2C915.

The modular transmitter must have its own RF shielding.	The module has its own RF shielding.
The modular transmitter must have buffered modulation/data inputs (if such inputs are provided) to ensure that the module will comply with Part 15 requirements under conditions of excessive data rates or over modulation.	The module has buffered inputs integrated in to the eCOG1X microcontroller on the module.
The modular transmitter must have its own power supply regulation	The module has its own power supply regulation.
The modular transmitter must comply with the antenna requirements of §15.203 and 15.204(c). The antenna must either be permanently attached or employ a “unique” antenna coupler (at all connections between the module and the antenna, including the cable). Any antenna used with the module must be approved with the module, either at the time of initial authorisation or through a Class II permissive change. The “professional installation” provision of §15.203 may not be applied to modules.	The module employs a unique antenna coupler. The type and gain of the antenna are specified in the user manual (datasheet) and the tests were performed with this type and gain of antenna. The antenna is an Antenna Factor ANT-916-CR-HWR. The datasheet for this antenna is supplied with this submission.
The modular transmitter must be tested in a stand-alone configuration, i.e. the module must not be inside another device during testing for compliance with part 15 requirements. Unless the transmitter module will be battery powered, it must comply with the AC line conducted requirements found in § 15.207. AC or DC power lines and data input/output lines connected to the module must not contain	The module was tested in a stand alone configuration using a commercially available carrier board.



<p>ferrites, unless they will be marketed with the module (see § 15.27(a)). The length of these lines shall be the length typical of actual use or, if that length is unknown, at least 10 centimetres to insure that there is no coupling between the case of the module and supporting equipment. Any accessories, peripherals, or support equipment connected to the module during testing shall be unmodified and commercially available (see § 15.31(i)).</p>	
<p>The modular transmitter must be equipped with either a permanently affixed label and, if the FCC identification number is not visible when the module is installed inside another device, then the outside of the device into which the module is installed must also display a label referring to the enclosed module. This exterior label can use wording such as the following: "Contains Transmitter Module FCC ID: XYZMODEL1" or "Contains FCC ID: XYZMODEL1." Any similar wording that expresses the same meaning may be used. The Grantee may either provide such a label, an example of which must be included in the application for equipment authorization, or, must provide adequate instructions along with the module which explain this requirement. In the latter case, a copy of these instructions must be included in the application for equipment authorization.</p>	<p>See the example label for this application, which will be attached to the base of the module. See also the user manual (datasheet) for the instructions to the OEM on how to label the end product.</p>
<p>The modular transmitter must comply with any specific rules or operating requirements that ordinarily apply to a complete transmitter and the manufacturer must provide adequate instructions along with the module to explain any such requirements. A copy of these instructions must be included in the application for equipment authorization.</p>	<p>The module is compliant with all applicable FCC rules. Detailed instructions for remaining compliant to these rules are given in the user manual (data sheet).</p>
<p>The modular transmitter must comply with any applicable RF exposure requirements in its final configuration.</p>	<p>The module complies with the RF exposure requirement. RF exposure is covered in the RF Exposure Declaration.</p>

Yours sincerely



Edward Harris