

Modular Approval Request FCC (per DA 00-1407)

FCC ID: XFXCM09US

<i>Items to be covered</i>	<i>Answer from applicant</i>	<i>Answer from applicant</i>
<b>Part Number</b>	<b>CM09CPUS</b>	<b>CM09XTUS</b>
1. The modular transmitter must have its own RF shielding.	Yes, all RF circuits excluding the antenna are shielded	Yes
2. 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.	There is no modulation input; the modulation signal is generated within the module. All data inputs are buffered.	There is no modulation input; the modulation signal is generated within the module. All data inputs are buffered.
3. The modular transmitter must have its own power supply regulation.	Yes	Yes
4. The modular transmitter must comply with the antenna requirements of Section 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)..	The CM09CPUS does have an embedded antenna	The CM09XTUS does have a propriety LGA pcb footprint which includes the RF-output pads.  The following text will be part of the data sheet as mandatory FCC information: <i>The CM09XTUS module is certified as a FCC Transmitter Module with with 3 dBi maximum gain for the external antenna.</i>
5. The modular transmitter must be tested in a stand-alone configuration, i.e., the module must not be inside another device during testing. This is intended to demonstrate that the module is capable of complying with Part 15 emission limits regardless of the device into which it is eventually installed.	The module is tested on an adaptor board with fully exposure of the module.	The module is tested on an adaptor board with fully exposure of the module.
6. The modular transmitter must be labeled with its own FCC ID number, and, if the FCC ID 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.	The module will have a label showing the FCC-ID.  The following text will be part of the data sheet as FCC mandatory information:  <i>If the FCC ID of the CM09 modules 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.</i>	The module will have a label showing the FCC-ID.  The following text will be part of the data sheet as FCC mandatory information:  <i>If the FCC ID of the CM09 modules 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:XFXCM09US" or "Contains FCC ID:XFXCM09US."</i>
7. The modular transmitter must comply with any	Data sheet with operating	Data sheet with operating

<p>specific rule or operating requirements applicable to the 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. For example, there are very strict operational and timing requirements that must be met before a transmitter is authorized for operation under Section 15.231. For instance, data transmission is prohibited, except for operation under Section 15.231(e), in which case there are separate field strength level and timing requirements. Compliance with these requirements must be assured.</p>	instructions is available	instructions is available
<p>8. The modular transmitter must comply with any applicable RF exposure requirements. For example, FCC Rules in Sections 2.1091, 2.1093 and specific Sections of Part 15, including 15.319(i), 15.407(f), 15.253(f) and 15.255(g), require that Unlicensed PCS, UNII and millimeter wave devices perform routine environmental evaluation for RF Exposure to demonstrate compliance. In addition, spread spectrum transmitters operating under Section 15.247 are required to address RF Exposure compliance in accordance with Section 15.247(b)(4). Modular transmitters approved under other Sections of Part 15, when necessary, may also need to address certain RF Exposure concerns, typically by providing specific installation and operating instructions for users, installers and other interested parties to ensure compliance.</p>	<p>Power density at 20 cm distance is 0.02 mW/cm<sup>2</sup> is well below the 1 mW/cm<sup>2</sup> (1.1310) for portable devices (2.1091) See calculation on separate sheet.</p>	<p>Power density at 20 cm distance is 0.016 mW/cm<sup>2</sup> is well below the 1 mW/cm<sup>2</sup> (1.1310) for portable devices (2.1091) See calculation on separate sheet.</p>

Note: If compliance with one or more of the numbered requirements, listed above, cannot be demonstrated, it may be possible to obtain a "Limited Modular Approval" (LMA).

Name and surname of applicant (or authorized representative): Elly Schietse

Date: 08 July 2009

Signature:

