GE Appliance & Lighting

Rob Bultman
Home Energy Management Platform Leader
Appliance Park, AP35-1405
Louisville, KY 40225
T 502 452 5806
F 502 452 0371
Email Rob.Bultman@ge.com

April 23, 2012

RE FCC ID: ZKJ-DSM04R01

To the certification reviewer:

We are hereby applying for limited modular approval of the above-referenced FCC ID, based on compliance with most of the criteria as detailed below.

Sincerely,

R. Bultman

Rob Bultman
Home Energy Management Platform Leader

Part 15 Unlicensed Single Modular Transmitter Approval Justification per 15.212

	Requirement per 15.212	reference
(i)	The radio elements of the modular transmitter must have their own RF shielding.	Design contains Laird shield GE-LT11AJ1231 and shielding is provided by a ground plane on the printed wiring board.
(ii)	The modular transmitter must have buffered modulation/data inputs (if such inputs are provided.	All modulation and data inputs are buffered by circuitry on the transmitter chip so it is not possible to over modulate the chip or effect the modulation pattern.
(iii)	The modular transmitter must have its own power supply regulation.	Modular transmitter contains LDO linear voltage regulator, Diodes AP130-33YRG-13
(iv)	The modular transmitter must comply with the antenna and transmission system requirements of §§ 15.203, 15.204(b) and 15.204(c).	The antenna is permanently attached ceramic chip antenna.

GE Appliance & Lighting

Rob Bultman
Home Energy Management Platform Leader
Appliance Park, AP35-1405
Louisville, KY 40225
T 502 452 5806
F 502 452 0371
Email Rob.Bultman@ge.com

April 23, 2012

(v)	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 parameters.	Testing was performed with the module outside of the host as shown in the test setup photos.
(vi)	The modular transmitter must be equipped with either a permanently affixed label or must be capable of electronically displaying its FCC identification number. 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.	A sample of the host label is provided as an exhibit, showing the FCC identifier of the module in the silkscreen.
(vii)	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.	The module complies fully with the operating requirements of Part 15 section [15.247] as demonstrated in the test report exhibit.
(viii)	The modular transmitter must comply with any applicable RF exposure requirements in its final configuration.	The module complies with the MPE limits from FCC Part 1.1310 with a separation distance of 20cm and an antenna gain of 0.5dBi for mobile applications. Portable applications for this module will require further RF exposure evaluations (SAR).