



To: File
From: Timothy R. Walters
Subject: Utilinet PCMCIA Radio Modular Approval Request

2/27/07

1. Scope

FCC Public Notice DA 00-1407 released June 26, 2000 communicated guidelines for products requesting modular approval. In particular, 8 requirements were enumerated along with a request that each of the 8 be explained for any product requesting such approval.

It is the purpose of this document to respond to those 8 guidelines in regard to the Cellnet product: Utilinet PCMCIA Radio.

2. Modular Approval Requirements

2.1 RF Shielding

The Utilinet PCMCIA Radio is self-shielding. Shielding is accomplished through a combination of metallic self-shielding components, copper planes, guards, and vias in the PCB. The result is a design that has been proven to be neither sensitive to outside influence nor capable of introducing interference into outside components.

2.2 Buffered Modulation / Data Inputs

The Utilinet PCMCIA Radio does not have external modulation or data inputs. Rather, the RF section is driven by an on-board microprocessor which directly controls the RF data lines and operates so as to not allow excessive modulation.

2.3 Power Supply Regulation

The Utilinet PCMCIA Radio uses a switching buck regulator to provide all the electronics with a supply that is fixed, even when the input voltage is varied.

2.4 Antenna Requirement

The Utilinet PCMCIA Radio includes an integrated antenna. The antenna is a "bent monopole" integrated into the PCB and is not changeable.

2.5 Stand-Alone Testing

The Utilinet PCMCIA Radio module was tested in representative host applications. No ferrites were used on data or power lines during testing. This device meets applicable conducted emission requirements.

2.6 Labeling

As indicated, each module will have its own FCC ID label. In addition, devices into which it is placed will have a sticker indicating that this module is contained within. Exact text will be as specified in the FCC Public Notice.

2.7 Specific Rules and Operating Requirements

The Utilinet PCMCIA Radio complies with all the pertinent rules for its section. Other than its reduced power level, it shares common code and is functionally equivalent to the 26-1055 product which is FCC certified as R7PIWRS3.

2.8 RF Exposure Requirements

The Utilinet PCMCIA Radio complies with all exposure requirements.