



125A Castle Drive  
Madison, AL 35758  
January 1, 2014

Federal Communications Commission  
Equipment Authorization Branch  
7435 Oakland Mills Road  
Columbia, MD 21046

RE: R4N-AW900MR

Dear Sir or Madam:

The AvaLAN Wireless radio transceiver module is sold as a modularly certified radio board to OEM product developers and is not sold to the general public.

The module is typically embedded within the OEM's product and proprietary RF connectors are typically used on the enclosure of the product to connect to antennae. These OEMs typically sell proprietary connectorized antennae that do not exceed 36dBm EIRP regardless of cable length.

The Yagi antenna in this filing has 16dBi of gain and if this antenna were directly connected to the module, the EIRP would be 34.9dBm. Professional installation is not required.

The Panel antenna in this filing has 12.5dBi of gain and if this antenna were directly connected to the module, the EIRP would be 31.4dBm. Professional installation is not required.

The Omni antenna in this filing has 11dBi of gain and if this antenna were directly connected to the module, the EIRP would be 29.9dBm. Professional installation is not required.

The Dipole antenna in this filing has 2dBi of gain and if this antenna were directly connected to the module, the EIRP would be 20.9dBm. Professional installation is not required.

The Sector antenna in this filing has 18.5dBi of gain and if this antenna were directly connected to the module, the EIRP would be 37.4dBm. In the product manual we advise OEM product developers that professional installation IS required IF their product is configurable with a sector antennae that has over 17.1dBi but less than 18.5dBi of gain.

Best regards,

A handwritten signature in black ink, appearing to read "Michael R Derby".

Michael R Derby  
CTO