


1.4 FCC Notice

1. The Model AN-100U and its antenna must be professionally installed.
2.  WARNING -- FCC RF Exposure Warnings
To satisfy FCC RF exposure requirements for RF transmitting devices, a minimum distance of 20 cm should be maintained between the antenna of this device and persons during device operation. To ensure compliance, operation at closer than this distance is not recommended. The antenna used for this transmitter must not be collocated in conjunction with any other antenna or transmitter.
3. Operation is restricted to the 25 MHz band 3.650-3.675 GHz (restricted contention based protocol for WiMAX devices).
4. FCC Information to Users @ FCC 15.21 & 15.105:
This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications.
5. Warning: Changes or modifications not expressly approved by Redline Communications could void the user's authority to operate the equipment.
6. Refer to section 8.5: FCC Certified Antennas on page 108 for a list of certified antennas.

1.4.1 R&TTE Directive 1999/5/EC Statements

Installation

The modem and antenna equipment must be installed by a qualified professional installer and must be installed in compliance with regional, national, and local regulations. It is the responsibility of the system installer and/or system operator to ensure the installed system does not exceed any operational constraints identified by local regulations. Refer to the product User Guide and Installation Guidelines document for detailed information covering the correct steps to ensure power and frequency settings are set correctly before connecting the antenna. Operation in the 3.4-3.6 GHz band is subject to license. Authorities within the country of installation can provide information regarding the licensing regime and restrictions.

Community Language Declarations

The following table contains community language versions of informal statement in accordance with Article 6.3 of Directive 1999/5/EC.

8.5 FCC Certified Antennas

This device has been designed to operate with the antennas listed below, having a maximum peak gain of 20 dB. The Max. Tx Power Setting in the GUI listed below for each antenna will limit the EIRP at any time to 1W/1MHz (30 dBm). Antennas not included in this list or having a peak gain greater than 20 dB are strictly prohibited for use with this device. The required antenna impedance is 50 ohms.

Table 45: Spec. - FCC Certified Antennas: 5.4 GHz Operation				
Redline PN	Ant. Gain (dBi)	Antenna Description	App.	GUI Max. Tx Power Setting
A2408MTF	-24	Antenna: 2 foot, 8 degree, 24 dBi flat panel antenna.	PTP	-5
A2014ARF	20	Antenna: 1 foot, 13.5 degree, 20 dBi flat panel antenna.	PTP	+1
PA1760EAS	17	Sector Antenna: 60 degree, 17 dBi, vertical polarization.	PMP	3
PA1660EASH	16	Sector Antenna: 60 degree, 16 dBi, horizontal polarization.	PMP	5
PA1690EAS	16	Sector Antenna: 90 degree, 16 dBi, vertical polarization.	PMP	5
PA1590EASH	15	Sector Antenna: 90 degree, 15 dBi, horizontal polarization.	PMP	6
A1490MTS	14.5	Sector Antenna: 90 degree, 14.5 dBi, vertical polarization	PMP	4 6
PA14120EAS	14	Sector Antenna: 120 degree, 14 dBi, horizontal polarization.	PMP	7
PA14120EASH	14	Sector Antenna: 120 degree, 14 dBi, horizontal polarization.	PMP	7
A11360EAO	11	Sector Antenna: 360 degree, 11.0 dBi.	PMP	10

Note: The RF output power and selection must be professionally programmed and installed by the manufacturer or a trained professional installer.