



## Operational description

# WiMAX 3.7 GHz

ProST 3.7GHz

Connecting the World with Wireless Access Solutions

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## 1. Scope

This document provides a description of the WiMAX 3.7GHz product.

## 2. ProST

A subscriber premises radio, ProST 3.7GHz TDD Int., is part of a WiMAX broadband fixed cellular wireless access system. The system provides a radio link between an end-user (a subscriber) and a network to give high-speed data access. The ProST's transceiver/receiver (Up to 64 QAM modulation, data rate up to 37Mbps) uses OFDM and operating in TDD duplexing mode, equipped with a 16 dBi internal antenna. The maximum RF output power (not including antenna gain) is 24.82 dBm and it can be reduced by software.

The ProST is installed outdoors and typically is mounted on a pole. The ProST transmits and receives traffic to and from the base station (i.e. BSR) respectively. The transceiver provides subscribers with "always-on" Internet, high speed data only, or data and voice (VoIP) services and is configured with a unique BSR reference number, preventing the ProST from relocating to another subscriber premises without authorization. The ProST radio has the same PCB components as the EasyST, and differs only chassis and 48V adapter.

### 3.3 – 3.8 GHz Antenna

#### MA-WA36-AS16

##### Specifications

Electrical	
Frequency range	3.3 – 3.8 GHz
GAIN	16 dBi typ. @ 15 dBi min.
VSWR, max.	1.5: 1
3dB Beam Width - Azimuth, Typical	20°
3dB Beam Width - Elevation, Typical	20°
Polarization	Linear, Vertical
Side-lobes Level, min.	EN 302 085 Class TS2
Cross Polarization, min	EN 302 085 Class TS2
Front to back, min	EN 302 085 Class TS2
Power Handling	6 Watt
Input Impedance	50 Ohm
Mechanical and Environmental	
Dimensions (LWXH)	275 x 180 x 0.8 mm
Connector	MCX, Male
Radome	Airspan Enclosure
Flammability	UL 94V-0
Operating Temperature	-40° to +85°
Lightning Protection	DC Grounded