



Operational description

# WiMAX 3.7 GHz

EasyST 3.7GHz

Connecting the World with Wireless Access Solutions

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## 1. Scope

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

## 2. EasyST

A subscriber premises radio, EasyST 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 EasyST's transceiver/receiver (Up to 64 QAM modulation, data rate up to 37Mbps) uses OFDM and operating in TDD duplexing mode, equipped with a 7.5 dBi Ext. antenna. The maximum RF output power (not including antenna gain) is 21.6 dBm and it can be reduced by software.

The EasyST is a safe install unit and located indoor. The EasyST 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 EasyST from relocating to another subscriber premises without authorization.

# Directional 4-Sector Antenna for 3.7 GHz

Preliminary 0.1

## ALA06-120110

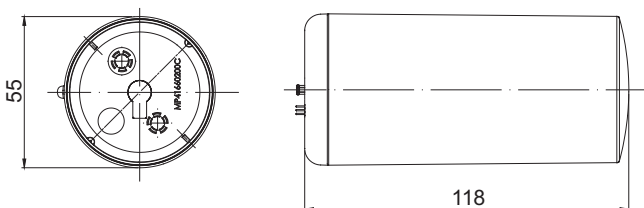
### Electrical Specification

Frequency range	3600 MHz - 3800 MHz
Gain	7.5 dBi
VSWR	2.0 : 1 Max.
Polarization	Linear, vertical
HPBW / horizontal	90°
HPBW / vertical	45°
Front-to-back ratio	8 dB
Power handling	1 W (cw)
Impedance	50 ohms
Connector	MCX

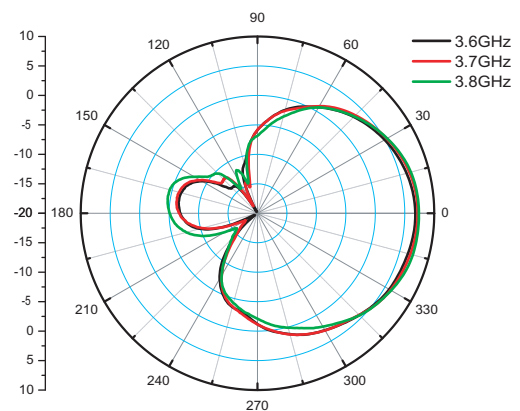


### Environmental & Mechanical Characteristics

Temperature	- 30° C to +75° C
Humidity	95% @ 55° C
Radome color	Pantone 628C
Radome material	PC, UV resistant
Weight	TBD g
Dimensions	φ55 x 118 mm



H-Plane Co-polarization Pattern



V-Plane Co-polarization Pattern

