

ProST-2 and ProST-Wi-Fi-2

ProST is a customer premises equipment designed for outdoor deployment. It is designed for rapid and simple external deployment, to be fitted by trained personnel in less than one hour. The operator would deploy the ProST when a specific service level needs to be guaranteed to the end customer. The ProST ensures high service availability at enhanced ranges, operating in both LOS and NLOS propagation environments.

ProST product family has two models:

- **ProST** which delivers WiMAX access
- **ProST- WiFi** which delivers WiMAX access together with integrated Wi-Fi capability.

To obtain a basic service capability, the ProST would not require programming with any initial configuration data. However, to deliver service to the ProST will require the management system to authenticate the customer's equipment using the internal X.509 certificate. This may be achieved automatically (through a web based registration service) or via a telephone call to a central administration centre.

ProST supports a two piece design comprising of the outdoor unit (ODU) which contains the radio, the antenna and the baseband processor in an environmentally robust enclosure, and a family of indoor adapters called Subscriber Data Adapter (SDA) designed to support the delivery of a range of end-user services. Service interface options include:

- 1 to 4 Port Switch
- 4 port with VLAN Port Switching
- Integral 802.11b/g WiFi Access Point (SDA-WiFi)
- Integral VoIP IAD (SDA-MSG)

Pro-ST users can benefit from VoIP services and indoor WiFi coverage by deploying the SDA-MSG and SDA-WiFi units respectively.



SDA-MSG

SDA-WiFi

SDA-MSG comprises of the EasyVoice unit plus a Power Supply Adaptor (PSA). The SDA-WiFi consists of the EasyWiFi unit plus PSA.

The latest generation ProST called ProST-2 is based on the Rosedale 2 chipset from Intel and is capable of supporting both Mobile WiMAX and Fixed WiMAX profiles. Simply through software the device can be configured to support one or the other profile.

ProST-WiFi, in addition to the WiMAX access also supports an outdoor integrated IEEE 802.11b/g Access Point inside of the same ProST ODU enclosure. This solution enables ProST-WiFi to provide outdoor Wi-Fi coverage with WiMAX backhaul thus ensuring the rapid rollout of Wi-Fi Hotzones. ProST-WiFi operates over the full ProST temperature range and includes industrial strength IEEE 802.11b/g technology that supports 16 SSIDs per CPE and SSID to VLAN and VLAN to IEEE 802.16 Service Flow mapping.

ProST and ProST-WiFi can be managed by Airspan's Web-based management system using a standard Web browser. Alternatively, it can be managed using an SNMP-based network management system such as Airspan's Netspan element manager through standard and proprietary MIBs.



Rapid and Simple External Deployment

Main Features

- Suitable for full outdoor Non-LOS deployment
 - Based on field-proven mechanics
- ProST and ProST-WiFi are available in a wide range of frequencies including:
 - 3.3GHz, 3.5GHz, 3.7GHz, 4.9GHz, 5.1GHz, 5.4GHz 5.8GHz, 5.9GHz
- Comprehensive range of indoor Subscriber Data Adaptors (SDA)
 - 1-4 port Switch
 - Up to 4 ports with VLAN switching
 - Indoor and Outdoor IEEE 802.11b/g Wi-Fi and VoIP support
 - AC or DC powering options
- Outdoor and indoor units connected using CAT5e cable
- Built-in antenna gain of 17dBi
 - Industrial strength Wi-Fi AP
 - Tx power – 16dBm
 - Antenna gain – 2dBi
 - 16 SSIDs
 - Transparent Layer 2 bridge
 - IEEE 802.1q VLAN support

ProST-2 Technical Summary

	ProST-2
Mobile WiMAX	Yes
Fixed WiMAX	Yes
Standards Compliance	IEEE802.16e-2005 IEEE802.16-2004
Form Factor	Outdoor
Frequency Bands	1.5GHz, 3.3GHz, 3.5GHz, 3.7GHz, 4.9GHz, 5.1GHz, 5.4GHz 5.8GHz, 5.9GHz
Channel Size	10MHz, 7MHz, 5MHz, 3.5MHz, 1.75MHz
FFT	1024, 512, 256
Duplex Method	TDD, FDD
Tx Power (Frequency band dependant)	+24dBm
Rx Sensitivity	-103dBm
STC	Yes
MIMO	No
MIMO Matrix Type	No
CSM	Yes
Beamforming	No
Uplink Sub-Channelization	Yes
PUSC	NO
Fractional Frequency Reuse	NO
Ethernet CS	Yes
IP CS	Yes
IP version support	IPv6, IPv4
User Interface	10/100bT Ethernet, WiFi, POTS with integrated RGW
End to End VLAN (802.1q)	Yes
Supported Usage Scenarios	Fixed
Handover Supported	No
Encryption	DES, AES
Authentication	PKM, PKMv2, EAP-TLS, EAP-AKA, EAP-SIM

Note: Specifications are subject to change without notice and are for information purposes only.



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