

## STAR4G 3170 SERIES

802.16E-2005

### WIMAX OUTDOOR SUBSCRIBER STATION

EION Wireless' Star4G 3170 Series includes a line of cost effective and high-performance outdoor subscriber stations for business and residential users requiring the longer range and increased throughput of an outdoor unit.



#### KEY FEATURES

- Compact, hardened, weatherproof construction designed for wall or pole mount installations
- Supports a wide range of network services, including Internet access and Voice over IP, for residential, SOHO, SME, large enterprise and multi-tenant applications
- Full-featured remote management capabilities for low-cost operation

#### OVERVIEW

The 3170 Series is designed for easy configuration with a web-based GUI, easy installation with an integrated antenna alignment tool and only requires a CAT5e cable connection between the indoor and outdoor units. In addition, over-the air, fail-safe software upgrades make for low-cost remote customer support and easy deployment of new services.

#### PERFORMANCE

The Star4G 3170 Series uses state-of-the-art scalable OFDMA technology and is fully compliant with IEEE 802.16e-2005 Wave 2 requirements. Whether in dense, urban or rural networks, optimal spectral efficiency and performance are keys to both customer satisfaction and service provider revenues. With robust performance under adverse conditions, adaptive modulation and NLOS operation for improved coverage, the additional antenna gain and outdoor installation of the 3170 Series is an important component for any WiMAX deployment.

Supports various services for enterprise and residential customers including:

- VPN
- VLAN
- NAT
- DHCP, DNS
- IP Filtering
- Bridging Mode

# DATASHEET

## STAR4G 3170

GENERAL	3170-23-03-01	3170-25-03-01	3170-35-03-01	3170-37-03-01
RF PHY	S-OFDMA			
Frequency Bands	2300 - 2390 MHz	2500 - 2700 MHz	3300 - 3600 MHz	3600 - 3800 MHz
Channel Size	10, 7, 5, 3.5 (future) MHz			
Duplex Method	TDD			
<b>WIMAX</b>				
WiMAX Specification	IEEE 802.16e-2005, WiMAX Forum Wave2			
Tx Power Maximum (typical)	+26 dBm, 16QAM ¾ @ antenna port			
Rx Sensitivity @5MHz QPSK ½ (typical)	-97.5 dBm			
Subchannelization Support	UL, DL			
Supported Usage Scenarios	Fixed, Nomadic			
Handover Support	intra-ASN, inter-ASN			
Enhanced WiMAX Features	ARQ, H-ARQ, MRC, PHS (future)			
<b>ANTENNA</b>				
MRC Receiver	Two Antenna			
DL MIMO Matrix A and B	Yes			
Antenna Type	Integrated directional cross polarized			
Gain	14 dBi	14 dBi	15 dBi	15 dBi
<b>INTERFACES</b>				
User Interface	10/100 BaseT Auto, (RJ-45 plug)			
ODU-IDU Interface	802.3af POE on RJ45			
<b>NETWORKING/SECURITY</b>				
Ethernet CS	Yes			
IPv4 CS	Yes			
WiMAX QoS	BE, rt-PS, nrt-PS, ert-PS, UGS			
Voice QoS	Yes			
VLAN Tagging	Yes (future)			
VPN pass through	PPTP, L2TP, IPSec			
Bridge Mode	Yes			
NAT Mode	Yes			
DHCP Server	Yes			
Security	Data: DES, AES, 3DES; Authentication: (X.509 certificate), EAP-TLS			
Packet Priority	802.1p, IP ToS/Diffserv			
<b>MANAGEMENT</b>				
ASN/CSN Managed	SNMP, Telnet CLI, TR-069			
CLI Interface	Yes			
SNMP MIB and client	Yes, V2			
GUI for Management	Yes (Subscriber Station HTML GUI)			
OTA Firmware Upgrade	Yes, with upgrade failover protection			
TR-069 Features	Remote Configuration (with SSL), Pre-provision HTTP (with SSL)			
<b>MECHANICAL/ELECTRICAL</b>				
Form Factor	Outdoor with brackets (pole/wall mount) and indoor IEEE 802.af compliant POE			
Power Consumption Typical/Maximum	7W / 12W			
Dimensions	205 (H) x 205 (W) x 55 (D) mm			
Weight	ODU: 1.2 kg (2.6 lbs)			
Operating temperature range	-40°C to +70°C (-40°F to +158°F)			
Storage temperature range	-40°C to +70°C (-40°F to +158°F)			
Humidity	0% to 90%			
Ingress Rating	ODU: IP67			
<b>STANDARDS COMPLIANCE</b>				
	CE, FCC, RoHS/WEEE			

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