

## STAR4G 3400 SERIES

802.16E-2005

### WIMAX INDOOR SELF INSTALLABLE SUBSCRIBER DEVICES OPTIONALLY WITH VOIP

EION Wireless' Star4G 3400 Series provides the best in class performance and ease of use to access high speed data and voice services over a WiMAX network.



#### KEY FEATURES

- High Transmission Power and high gain MIMO antennas help ensure maximum coverage and customer satisfaction
- Easy deployment with intuitive GUI interface and sophisticated LED signals showing WiMAX network strength to minimize operator assistance.
- Easy Management and OTA Software Upgrade options including TR-069
- Standards based SIP VoIP Signaling and QoS along with advanced phone features for high quality voice communications.

#### OVERVIEW

The Star4G 3400 Series is incredibly easy to use, with simple and effortless installation of both voice and data services for residential or business subscribers. With variants that support different frequency bands it provides high performance while maintaining low power consumption, Standard 3400 Series devices come with an integral voice port to support standard voice or fax services without any external devices or difficult configuration by the end users.

#### PERFORMANCE

Coverage and high-bandwidth performance are critical to maintaining customer satisfaction while keeping deployment costs to a minimum. With a fully compliant IEEE 802.16e-2005, SOFMDA-based radio interface, the Star4G 3400 Series combines high spectral efficiency with automatically adaptable coding and modulation and adjustable QoS service flows to enable residential, SOHO, SME and multi-tenant data and voice services that today's customers expect. By combining both broadband and voice services into a single device, along with easy-to-use industry-leading management and configuration options, both operators and their customers can reduce both equipment and operating costs. With variants that support different frequency bands.

# DATASHEET

## STAR4G 3400

GENERAL	3400DV-23-00 MODEL 3400DO-23-00 MODEL	3400DV-25-00 MODEL 3400DO-25-00 MODEL	3400DV-35-00 MODEL 3400DO-35-00 MODEL	3400DV-37-00 MODEL 3400DO-37-00 MODEL
RF PHY	S-OFDMA			
Frequency Bands	2.3 - 2.4 GHz	2.5 - 2.7 GHz	3.4 - 3.6 GHz	3.6 - 3.8 GHz
Channel Size	5, 7, 10 MHz			
Duplex Method	TDD			
<b>WIMAX</b>				
WiMAX Specification	IEEE 802.16e-2005, WiMAX Forum Wave2			
Tx Power Maximum (typical)	+27 dBm			
Rx Sensitivity @10MHz QPSK 1/2 (typical)	-96 dBm			
Rx Sensitivity @5MHz QPSK 1/2 (typical)	-98 dBm			
Enhance WiMAX Features	ARQ, H-ARQ, CTC, MRC			
<b>MULTIPLE ANTENNA SYSTEMS</b>				
MRC Receiver	Two Antenna			
DL MIMO Matrix A and B	Yes			
Antenna Type	Integrated Omni antennas			
Gain	6.0 to 7.0 dBi			
Connector for External Antenna	No			
<b>INTERFACES</b>				
Data Interface	1 Ethernet connector: 10/100 BaseT Auto, (RJ-45 plug)			
Voice Interface <sup>[1]</sup>	1 FXS POTS phone port for conventional phone (RJ-11 plug)			
LEDs	Power indication, WiMAX connection status, LAN status, VoIP status			
<b>NETWORKING/SECURITY</b>				
Ethernet CS	Yes			
IPv4 CS	Yes			
Static IP, DHCP client/server/relay	Yes			
DNS relay, DNS cache	Yes			
User configurable Router	Yes (RIPv1, RIPv2) and NAT (one-to-one, many-to-one)			
Packet inspection	Yes, firewall with NAT, NAT-T (Traversal), NAT-PT (Port Translation), DoS, DDoS, Content Filtering, port filtering, port forwarding and Java/ActiveX/cookie/keyword blocking			
VPN pass through	PPTP & L2TP Pass-Through			
L2 and L3 VPN transport through GRE tunnels	Yes			
WiMAX QoS	BE, rt-PS, nrt-PS, ert-PS, UGS			
Security	Data: DES, AES, 3DES; Authentication: (X.509 certificate), EAP			
Packet Priority	802.1p, IP ToS/Diffserv			
<b>VOICE SERVICES<sup>[1]</sup></b>				
Signaling	SIP (RFC3261) and SDP (RFC 2327)			
Speech	G.711 (u-law and A-law), G729 codec, G.168 Echo Cancellation			
Services	DTMF detection and generation, Fax Tone detection, T.38 Fax relay,			
Supplementary services	Call Waiting / Forwarding, Call Transferring, 3 way conference, Call Hold / Call Retrieve, Incoming Call Policy, CLIP			
<b>MANAGEMENT</b>				
Connection Manager	Yes			
Telnet, HTTP/WEB, TR-069, SSH v2.0	Yes			
OTA Firmware Upgrade	TR-069, OMA-DM, TFTP/HTTP			
SNMP	Yes, SNMPv1 and SNMPv2c (incl. traps)			
<b>MECHANICAL/ELECTRICAL</b>				
Form Factor	Indoor desktop			
Reset button	Yes, to Factory Defaults			
Temperature	0°C to +45°C			
Humidity	10% - 90% (non condensing)			
Power Consumption (Maximum)	10 W			
Dimension	260(H) x 165(W) x 25(D) mm			
Weight	400 g			
<b>STANDARDS COMPLIANCE</b>				
	UL, FCC, ETSI, CE, RoHS/WEEE			

[1] Applicable only to the 3400DV model



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