

Cyclone

...Designed for the Elements

Cyclone 2400-360.15

**2.4 GHz 360° Vertical Omni
Antenna with 15 dBi of Gain**



RF Hardened Case Over engineered to survive the most challenging conditions. Hardened aluminium casing protects the radio from errant radio waves and harsh environments. Install it... Leave it.

Powerful Develops an EIRP of 36.0 dBm. The power needed for a stable, dependable wireless network. More power = fewer antennas needed to cover large geographic areas.

Distance & Coverage Up to a distance of 7 miles of reliable coverage without a reflector and 20 miles with a reflector. This is an ideal solution for rural areas where a 40 mile diameter is needed.

Efficient Technology The Vertical Omni Antenna allows for one channel and a single access point to cover a complete 360 degree coverage pattern.

Easy Installation Standard antenna firmly mounts with stainless steel hardware to pipes from 1.25 to 3.5 inches. Mounting hardware allows for 15° of adjustment. Clamps on securely in minutes.

Compatibility The Cyclone Broadband Wireless Solution is fully compatible with the Canopy Broadband Wireless Internet Platform and is FCC certified in the United States and IC certified in Canada.

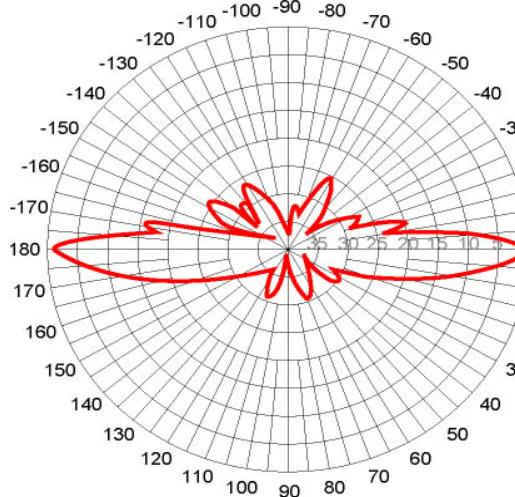
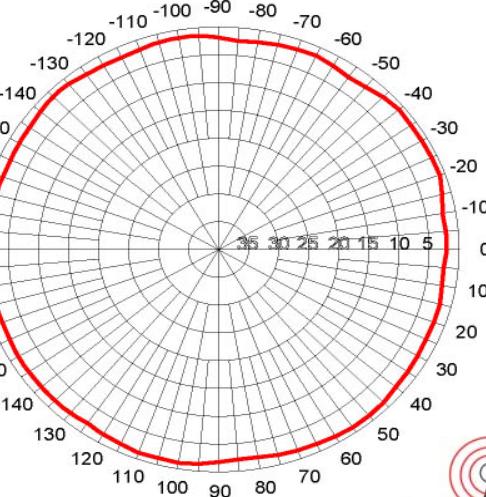
For more information or to order call Toll Free 1-866-230-9174 or visit www.lastmilegear.com.

Cascade Networks P.O. Box 887, Longview, WA 98632
Phone: (360)414-5990 Fax: (360)414-5991



**Cyclone****Model 2400-360.15**

Antenna Specifications	
Polarization	Vertical
Gain, dbi (nominal) Beamwidth -3dB	15
Horizontal Plane Beamwidth	360°
Vertical Beamwidth -3 db	8°
Front to Back	N/A
X-Polarization Rejection	>20 dB
Electrical Downtilt	0°
VSWR	1.5 Maximum
Antenna Manufacturer and Model Number	Hyperlink Technologies - HG2415U-PRO
Frequency, GHZ	2.415-2.457.5 ISM
Access Mode	TDD/TDMA
Signaling Rate	10 Mbps
Carrier to Interference	3dB nominal, with receiver input @ -65 dBm and higher.
Receiver Sensitivity	-83 dBm 10^{-4} BER
Operating Range	Up to 7 miles without a reflector, up to 20 miles with a reflector.
Output EIRP	36 dBm
DC Power	0.30 Amp @ 24 VDC (7.2 watts)
Interface	10/100 BaseT, Half/Full Duplex rate auto negotiated (802.3 compliant)
Protocols used by Cyclone	IPV4, UDP, TCP, ICMP, Telnet, HTTP, FTP, SNMP, DES, AES
Protocols supported by Cyclone	Switched Layer 2 Transport w/support for all common Ethernet protocols including IPV6, NetBIOS, DHCP, IPX, etc.
Software Upgrade Path	Remotely Downloaded into Flash via RF link
Network Management	HTTP, TELNET, FTP, SNMP Version 2C
Temperature	-40° C to +55° C (-40° F ~ 131° F)
Weight	11 lbs.
Dimensions (w/Mount)	Length 53", Width 5", Depth 10"
FCC Certification # / IC Certification #	QSX2400ISM / 4586A-5700EC

Base Station Antenna Section Pattern**H-Plane Vertical****E-Plane Horizontal**

Product specifications subject to change without notice. Please call for latest specifications.

