



**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](http://www.lastmilegear.com).*

Cascade Networks P.O. Box 887, Longview, WA 98632  
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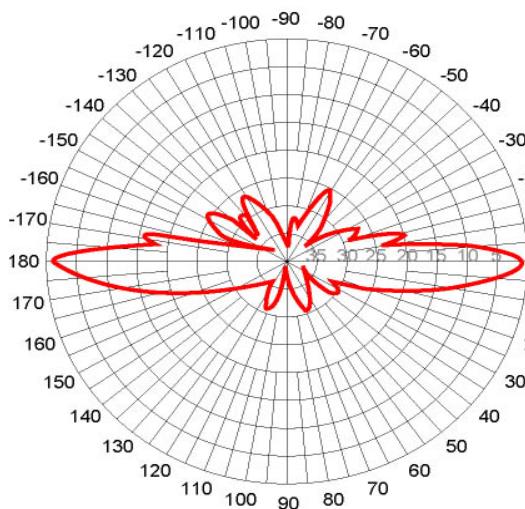
## Model 2400-360.15

| 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 |

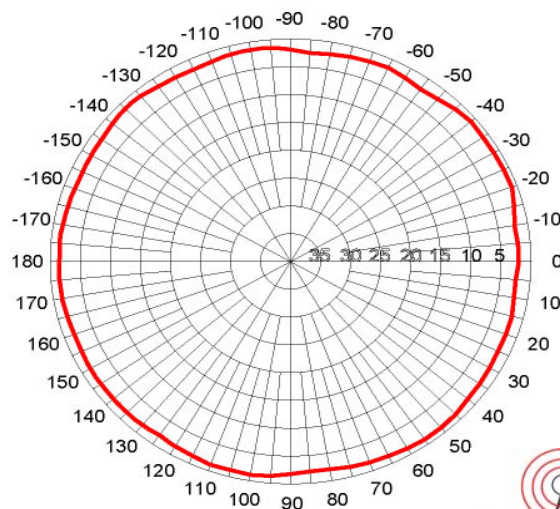
  

|  |   |
|--|---|
| Frequency, GHz                           | 2.415-2.457.5 ISM   |
| Access Mode                              | TDD/TDMA  |
| Signaling Rate                           | 10 Mbps   |
| Carrier to Interference                  | 3dB nominal, with receiver input @ -65 dBm and higher.  |
| 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 # | Q5X2400ISM / 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.

