



EONTECH 6000 PtMP

Ride the EONTECH 6000 PtMP Wireless Highway

The EONTECH 6000 series is a Point-to-Multipoint (PtMP) solution with a unique air interface that ensures robust performance in harsh spectrum conditions.

This cost-effective solution delivers up to 250 Mbps and is greatly suitable for last mile enterprise and residential connectivity in rural and low-density areas when budget is limited.

EONTECH 6000

Applications

CARRIERS & ISPS

EONTECH 6000 PtMP is an excellent revenue generator for carriers and ISPs that are looking to deploy last mile enterprise connectivity and deliver high-capacity broadband access to end users.

Carriers can leverage EONTECH 6000 PtMP capabilities and nLOS outstanding performance to backhaul wireless and landline access systems such as Wi-Fi hot spots.

GOVERNMENT & ENTERPRISE NETWORKS

EONTECH 6000 PtMP offers exclusive wireless broadband infrastructure for government and enterprise networks to dramatically reduce their total cost of ownership when implementing the following applications:

- » Connectivity of high resolution video surveillance
- » Wide range inter-office connectivity
- » Mission critical broadband applications



EN-6BG6-7765



EONTECH JET, JET PRO Model

Sector Base Station - Data Sheet
(EN6000/HBS-Pro/6BG6/F54/TH/JET/INT)



Sector Base Station

EN-6BG6-7765

Product Description

EN-6BG6-7765 is a sector Base Station radio unit (HBS) that provides up to 750 Mbps net aggregate throughput while delivering access connectivity for up to 64 Subscriber Units (HSU).

EN-6BG6-7765 supports 5.4 to 5.8 GHz and complies with TH regulations.

The radio comes with a smart beamforming integrated antenna with embedded GPS. Bi-Beam air interface.

Product Highlights

- Base station with smart beamforming antenna
- Up to 750 Mbps net aggregated throughput
- Long range - Up to 40 km / 25 miles
- Supports up to 64 HSUs
- Guaranteed Service Level Agreement (SLA) per HSU
- Exceptional short and constant latency
- Single radio supporting multiple bands
- Advanced MIMO, OFDM and Diversity technologies
- Robust and reliable operation in harsh conditions, extreme temperatures and nonline - of-sight scenarios
- Ease of operation and maintenance

Certificate



Ordering Info

Part Number: EN-6BG6-7754

Description: EONTECH JET-PRO 750 ODU, with a smart beamforming integrated antenna with embedded GPS, supporting multi frequency bands at 5.x GHz, factory default 5.8 GHz TH.

Specifications:

Configuration					
Architecture	Outdoor Unit with a smart beamforming integrated antenna with embedded GPS				
PoE to ODU Interface	Outdoor CAT-5e; Maximum cable length: 100m for 10/100BaseT and 75m for 1000BaseT				
Radio					
Max Capacity	750 Mbps net aggregate throughput				
Subscriber Units support	Up to 64 subscriber units				
Range	Range Up to 40 km / 25 miles				
Channel Bandwidth	Configurable: 10, 20 MHz (for the default band)				
Modulation	MIMO-OFDM (BPSK/QPSK/16QAM/64QAM/256QAM)				
Adaptive Modulation & Coding	Supported				
Smart Bandwidth Management (DBA)	Supported				
DFS	Not Supported				
Diversity	Supported				
Max Tx Power	25 dBm; max EIRP 30 dBm (for the default band)				
Duplex Technology	TDD				
Error Correction	FEC k = 1/2, 2/3, 3/4, 5/6				
Encryption	AES 128				
Support Indoor units	EONTECH PoE devices (EN-0032-212X)				
Uplink / Downlink Allocation	Configurable: Symmetric or Asymmetric				
End to End Latency	Typical: 3.5msec @ 2 SUs; 20msec @ 64 HSUs				
Layer 2	Bridging learning of 5K MAC addresses				
QoS	Packet classification to 4 priority queues according to 802.1P or Diffserv				
VLAN Support	802.1Q, QinQ, 4094 VLANs				
TDD Intra Site Synchronization	Supported				
TDD Inter Site Synchronization	Supported through common GPS receiver per site				
ODU Management	Pv4/IPv6 dual-stack; SNMPv1, SNMPv3; HTTP/HTTPS using web browser				
802.1x	Supported				
Option 82	Supported				
IGMP snooping	Supported				
Nomadic subscribers	Supported				
RADIUS Authorization	Supported				
RADIUS User authentication	Supported				
Syslog	Supported				
Supported Bands					
Band	CBW 10MHz [GHz]	CBW 20MHz [GHz]	CBW 40MHz [GHz]	CBW 80MHz [GHz]	Radio Compliance
5.8 GHz TH	5.725-5.850	5.725-5.850	5.725-5.850	5.725-5.850	N/A
Mechanical					
ODU Dimensions	35.6(w) x 22.5(h) x 9.4(d) cm				
ODU Weight	3.3 kg / 7.28 lbs				
Power					
Power Feeding	Power provided over ODU-IDU cable				
Power Consumption	<30W				
Environmental					
Operating Temperatures	-35°C to 60°C / -31°F to 140°F				
Humidity	100% condensing, IP67 (totally protected against dust and against immersion in water up to 1m)				
Safety					
US/CAN (cTUVus)	UL 60950-1, UL 60950-22, CAN/CSA C22.2 60950-1, CAN/CSA C22.2 60950-22				
CE/IEC	EN/IEC 60950-1, EN/IEC 60950-22				
EMC					
FCC	47 CFR, Part15, Subpart B, Class B				
ETSI	EN 300 386, EN 301 489-1, EN 301 489-4				
CAN/CSA-CEI/IEC	CISPR 22-2010 Class B				
Network					
Protocols	SNMP, Web Interface				
Orther					
Channel Selection	Automatic Channel Selection (ACS)				
Integrated Antenna					
Gain	20 dBi				
VSWR	2.0 : 1				
3 dB Azimuth Beamwidth	90 Deg. (typ)				
Polarization	Dual Linear (Vertical and Horizontal)				
Sidelobes Level	-12 dB(typ)				
Cross Polarization	-30dB (typ)				
F/B Ratio	-25 dB				
Port To Port Isolation	35 dB (typ)				
Lightning Protection	DC Grounded				

Datasheet information can be changed by manufacturer without prior notice

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EONTECH D Plus Model

Point-to-Point Radio - Data Sheet
(EN-3000/ODU/DP/F54/TH/INT)



Point-to-Point Radio

EN-3765-D211

Product Description

EN-3765-D211 is a carrier-class radio that belongs to the EONTECH 3000 D-Plus Series and supports 5.4 to 5.8 GHz frequency range.

The Radio complies with TH regulations with a factory default of 5.8 GHz TH.

EN-3765-D211 delivers up to 750 Mbps throughput.

The radio comes with an integrated antenna.

Product Highlights

- 750 Mbps Ethernet net throughput
- Long range - Up to 40 km / 25 miles
- Telco-grade, extremely robust in harsh conditions
- Supports intra-site and inter-site synchronization to maximize capacity
- Configurable asymmetric throughput
- Advanced OFDM & MIMO technologies for operation in nLOS/NLOS and dense radio environments

Certificate



Specifications:

Configuration					
Architecture	Outdoor Unit with an integrated antenna				
PoE to ODU Interface	Outdoor CAT-5e; Maximum cable length: 100m for 10/100BaseT and 75m for 1000BaseT				
Radio					
Max Capacity	750 Mbps net aggregate throughput				
Subscriber Units support	Up to 40 km / 25 miles				
Range	Range Up to 40 km / 25 miles				
Channel Bandwidth	Configurable: 10, 20, 40, 80 MHz (for the default band); Dynamic Channel BW selection (20/40/80 MHz)				
Modulation	MIMO-OFDM (BPSK/QPSK/16QAM/64QAM/256QAM)				
Adaptive Modulation, Coding & Channel BW	Supported				
Automatic Channel Selection	Supported upon power up				
DFS	Not Supported				
Diversity	Supported				
Spectrum Viewer	Supported				
Max Tx Power	25 dBm; max EIRP 30 dBm (for the default band)				
Duplex Technology	TDD				
Error Correction	FEC k = 1/2, 2/3, 3/4, 5/6				
Encryption	AES 128				
Support Indoor units	EONTECH PoE devices (EN-0032-212X)				
Uplink / Downlink Allocation	Configurable: Symmetric or Asymmetric				
QoS	Packet classification to 4 priority queues according to 802.1P or Diffserv				
VLAN Support	802.1Q, QinQ, 4094 VLANs				
TDD Intra Site Synchronization	Supported				
TDD Inter Site Synchronization	Supported through common GPS receiver per site				
ODU Management	Pv4/IPv6 dual-stack; SNMPv1, SNMPv3; HTTP/HTTPS using web browser				
Option 82	Supported				
RADIUS Authorization	Supported				
RADIUS User authentication	Supported				
Syslog	Supported				
Supported Bands					
Band	CBW 10MHz [GHz]	CBW 20MHz [GHz]	CBW 40MHz [GHz]	CBW 80MHz [GHz]	Radio Compliance
5.8 GHz TH	5.725-5.850	5.725-5.850	5.725-5.850	5.725-5.850	N/A
Mechanical					
ODU Dimensions	30(w) x 30(h) x 10(d) cm				
ODU Weight	2.9 kg / 6.39 lbs				
Power					
Power Feeding	Power provided over ODU-IDU cable				
Power Consumption	<20W				
Environmental					
Operating Temperatures	-35°C to 60°C / -31°F to 140°F				
Humidity	100% condensing, IP67 (totally protected against dust and against immersion in water up to 1m)				
Safety					
US/CAN (cTUVus)	UL 60950-1, UL 60950-22, CAN/CSA C22.2 60950-1, CAN/CSA C22.2 60950-22				
CE/IEC	EN/IEC 60950-1, EN/IEC 60950-22				
EMC					
FCC	47 CFR, Part15, Subpart B, Class B				
ETSI	EN 300 386, EN 301 489-1, EN 301 489-4				
CAN/CSA-CEI/IEC	CISPR 22-2010 Class B				
Orther					
Channel Selection	Automatic Channel Selection (ACS)				
Integrated Antenna					
Gain	20 dBi				
VSWR	2.0 : 1				
3 dB Azimuth Beamwidth	90 Deg. (typ)				
Polarization	Dual Linear (Vertical and Horizontal)				
Sidelobes Level	-12 dB(typ)				
Cross Polarization	-30dB (typ)				
F/B Ratio	-25 dB				
Port To Port Isolation	35 dB (typ)				
Lightning Protection	DC Grounded				

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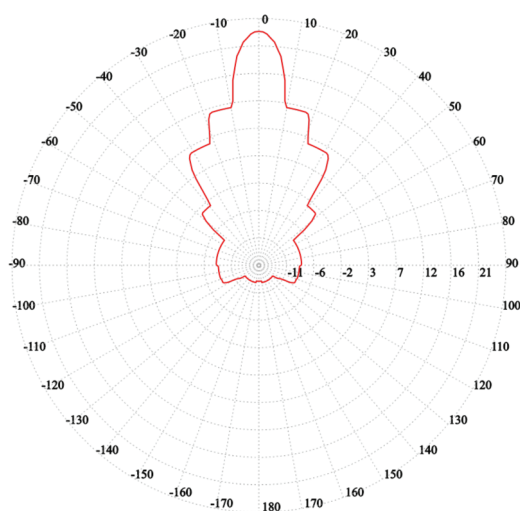


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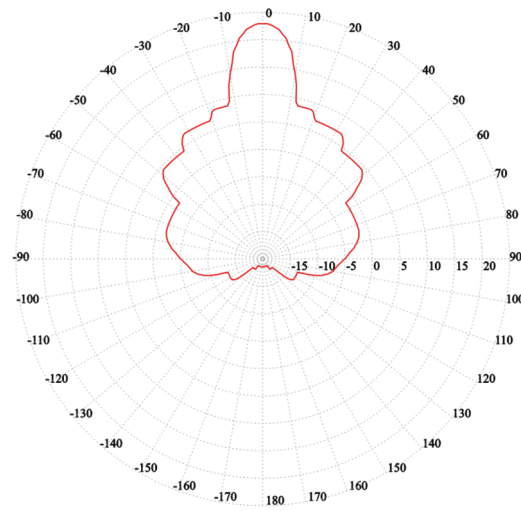
Specifications:

Antenna Pattern

Elevation @ 5.8GHz



Azimuth @ 5.8GHz



Ordering Info

Part Number : EN-3765-D211

Description : EONTECH 3000 D-Plus, with integrated antenna
, supporting multi frequency bands at 5.x GHz, factory default 5.8 GHz TH.

Datasheet information can be changed by manufacturer without prior notice

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EN-6761-OP65



EONTECH Subscriber Units, SU PRO Model

Subscriber Unit - Data Sheet

(EN-6000/SU-Pro/5650/F54/UNI/EMB)



Subscriber Unit

EN-6761-OP65

Product Description

EN-6761-OP65 is SU PRO, Connectorized subscriber unit that delivers up to 50 Mbps net aggregate throughput and supports SLA (CIR) or Best-Effort service level. SU PRO supports 4.9 to 6 GHz and complies with Universal, FCC/IC, MII & UBR, TH regulations.

The unit includes an embedded antenna and connectors (2 x SMA) for the high gain slideon TurboGain antenna. The connectors can be used for 3rd party external antenna.

Certificate



Product Highlights

- Up to 50 Mbps net aggregated throughput, upgradable to 250Mbps
- Long range - Up to 40 km / 25 miles
- Guaranteed Service Level Agreement based on CIR or Best Effort Service level
- Multiple Antenna configuration: 16dBi embedded antenna, 22dBi antenna when using the TurboGain antenna, and 3rd party external antenna
- Short and constant latency
- Advanced MIMO, OFDM and Antenna Diversity
- Robust and reliable operation in harsh environmental conditions including obstructed line-of-sight scenarios
- IP-66
- Simplified installation using a Smartphone app.

Ordering Info

Part Number : EN-6761-OP65

Description : EONTECH SU-PRO 50 ODU, with an embedded antenna and connectorized for external antenna (2 x SMA), supporting multi frequency bands at 5.x GHz, factory default 5.8 GHz TH.

Specifications:

Configuration					
Architecture	Outdoor Unit with an embedded antenna and connectos for external antenna (2 x SMA)				
PoE to ODU Interface	Outdoor CAT-5e; Maximum cable length: 100m for 10/100BaseT and 75m for 1000BaseT				
Radio					
Max Capacity	50 Mbps net aggregate throughput; Upgradable to 250 Mbps with license key				
Range	Up to 40 km / 25 miles				
Channel Bandwidth	Configurable: 10, 20, 40, 80 MHz (for the default band); Dynamic Channel BW selection (20/40/80 MHz)				
Modulation	MIMO-OFDM (BPSK/QPSK/16QAM/64QAM/256QAM)				
Adaptive Modulation & Coding	Supported				
DFS	Not Supported				
Diversity	Supported				
Max Tx Power	24 dBm				
Duplex Technology	TDD				
Error Correction	FEC k = 1/2, 2/3, 3/4, 5/6				
Encryption	AES 128				
Support Indoor units	EONTECH PoE device (included in the package); pinout: (+) pins 4/5, (-) pins 7/8				
Uplink / Downlink Allocation	Configurable: Symmetric or Asymmetric				
Layer 2	HUB Mode				
QoS	Packet classification to 4 priority queues according to 802.1P or Diffserv				
VLAN Support	802.1Q, QinQ, 4094 VLANs				
ODU Management	Pv4/IPv6 dual-stack; SNMPv1, SNMPv3; HTTP/HTTPS using web browser				
802.1x	Supported				
Option 82	Supported				
Non PPPoE filtering	Supported				
DHCP Filter	Supported				
IGMP snooping	Supported				
Nomadic subscribers	Supported				
RADIUS Authorization	Supported				
RADIUS User authentication	Supported				
Syslog	Supported				
Supported Bands					
Band	CBW 10MHz [GHz]	CBW 20MHz [GHz]	CBW 40MHz [GHz]	CBW 80MHz [GHz]	Radio Compliance
5.8 GHz TH	5.725-5.850	5.725-5.850	5.725-5.850	5.725-5.850	N/A
Mechanical					
ODU Dimensions	18.2(w) x 18.2(h) x 6.0(d) cm				
ODU Weight	0.5 kg / 1.10 lbs				
Power					
Power Feeding	Power provided over ODU-IDU cable				
Power Consumption	<13W				
Environmental					
Operating Temperatures	-35°C to 60°C / -31°F to 140°F				
Humidity	100% condensing, IP66				
Safety					
US/CAN (cTUVus)	UL 60950-1, UL 60950-22, CAN/CSA C22.2 60950-1, CAN/CSA C22.2 60950-22				
CE/IEC	EN/IEC 60950-1, EN/IEC 60950-22				
EMC					
FCC	47 CFR, Part15, Subpart B, Class B				
ETSI	EN 301 489-1, EN 301 489-4, EN 301 489-17				
CAN/CSA-CEI/IEC	CISPR 22-2010 Class B				
Orther					
Channel Selection	Automatic Channel Selection (ACS)				
Integrated Antenna					
Gain	16 dBi				
VSWR	1.7 : 1				
3 dB Azimuth Beamwidth	17 Deg. (typ)				
Polarization	Dual Linear (Vertical and Horizontal)				
Sidelobes Level	-12 dB(typ)				
Cross Polarization	-30dB (typ)				
F/B Ratio	-25 dB				
Port To Port Isolation	35 dB (typ)				
Lightning Protection	DC Grounded				

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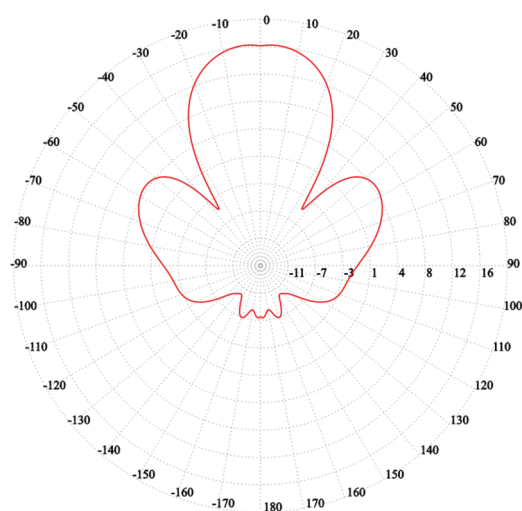


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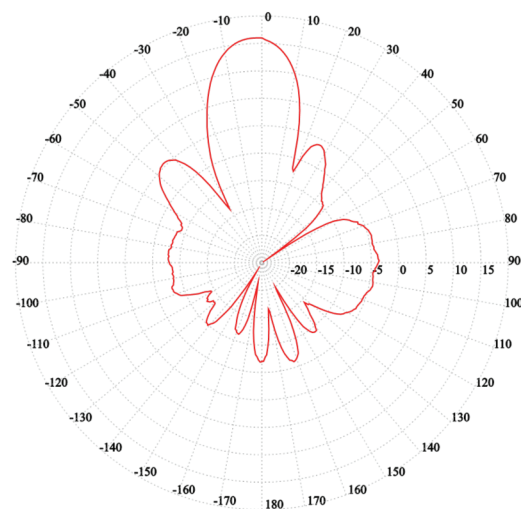
Specifications:

Antenna Pattern

Elevation @ 5.8GHz



Azimuth @ 5.8GHz



Ordering Info

Part Number : EN-6761-OP65

Description : EONTECH SU-PRO 50 ODU, with an embedded antenna and connectorized for external antenna (2 x SMA), supporting multi frequency bands at 5.x GHz, factory default 5.8 GHz TH.

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EN-3065-74C6



EONTECH Alpha Model

Point-to-Point Radio - Data Sheet
(EN3000/ODU/Alpha/F54/UNI/EMB/500M)



Sector Base Station

EN-3065-74C6

Product Description

EN-3065-74C6 is a carrier-class radio that belongs to the EONTECH 3000 Alpha Series and supports 5.4 to 5.8 GHz frequency range.

The Radio complies with TH regulations with a factory default of 5.4 GHz TH.

EN-3065-74C6 delivers up to 500 Mbps throughput.

The unit includes an embedded antenna and connectors (2 x SMA) for the high gain slide on TurboGain antenna. The connectors can be used for 3rd party external antenna.

Product Highlights

- Up to 500 Mbps net aggregated throughput
- Telco-grade, extremely robust in harsh conditions
- Supports intra-site synchronization to maximize capacity
- Configurable asymmetric throughput
- Advanced OFDM & MIMO technologies for operation in nLOS/NLOS and dense radio environments
- Multiple Antenna configuration: 16dBi embedded antenna, 22dBi antenna when using the TurboGain antenna, and 3rd party external antenna

Certificate



Ordering Info

Part Number: EN-3065-74C6

Description: EONTECH 3000 Alpha ODU, with an embedded antenna and connectorized for external antenna (2 x SMA), supporting multi frequency bands at 5.x GHz, factory default 5.4 GHz Universal.

Specifications:

Configuration					
Architecture	Outdoor Unit with an embedded antenna and connectos for external antenna (2 x SMA)				
PoE to ODU Interface	Outdoor CAT-5e; Maximum cable length: 100m for 10/100BaseT and 75m for 1000BaseT				
Radio					
Max Capacity	50 Mbps net aggregate throughput; Upgradable to 250 Mbps with license key				
Range	Up to 120 km / 75 miles				
Channel Bandwidth	Configurable: 10, 20, 40, 80 MHz (for the default band); Dynamic Channel BW selection (20/40/80 MHz)				
Modulation	MIMO-OFDM (BPSK/QPSK/16QAM/64QAM/256QAM)				
Adaptive Modulation & Coding	Supported				
Automatic Channel Selection	Supported upon power up				
DFS	Supported (ETSI, ETSI/GER)				
Diversity	Supported				
Max Tx Power	24 dBm				
Duplex Technology	TDD				
Error Correction	FEC k = 1/2, 2/3, 3/4, 5/6				
Encryption	AES 128				
Support Indoor units	EONTECH PoE devices (0032-212X)				
Uplink / Downlink Allocation	Configurable: Symmetric or Asymmetric				
QoS	Packet classification to 4 priority queues according to 802.1P or Diffserv				
VLAN Support	802.1Q, QinQ, 4094 VLANs				
TDD Intra Site Synchronization	Supported				
TDD Intra Site Synchronization	Supported through common GPS receiver per site				
ODU Management	Pv4/IPv6 dual-stack; SNMPv1, SNMPv3; HTTP/HTTPS using web browser				
Option 82	Supported				
RADIUS Authorization	Supported				
RADIUS User authentication	Supported				
Syslog	Supported				
Supported Bands					
Band	CBW 10MHz [GHz]	CBW 20MHz [GHz]	CBW 40MHz [GHz]	CBW 80MHz [GHz]	Radio Compliance
5.7 GHz TH	5.725-5.875	5.720-5.880	5.710-5.890	5.690-5.910	N/A
Mechanical					
ODU Dimensions	18.2(w) x 18.2(h) x 6.0(d) cm				
ODU Weight	0.5 kg / 1.10 lbs				
Power					
Power Feeding	Power provided over ODU-IDU cable				
Power Consumption	<13W				
Environmental					
Operating Temperatures	-35°C to 60°C / -31°F to 140°F				
Humidity	100% condensing, IP66				
Safety					
US/CAN (cTUVus)	UL 60950-1, UL 60950-22, CAN/CSA C22.2 60950-1, CAN/CSA C22.2 60950-22				
CE/IEC	EN/IEC 60950-1, EN/IEC 60950-22				
EMC					
FCC	47 CFR, Part15, Subpart B, Class B				
ETSI	EN 301 489-1, EN 301 489-4, EN 301 489-17				
CAN/CSA-CEI/IEC	CISPR 22-2010 Class B				
Integrated Antenna					
Gain	16 dBi				
VSWR	1.7 : 1				
3 dB Azimuth Beamwidth	17 Deg. (typ)				
Polarization	Dual Linear (Vertical and Horizontal)				
Sidelobes Level	-12 dB(typ)				
Cross Polarization	-30dB (typ)				
F/B Ratio	-25 dB				
Port To Port Isolation	35 dB (typ)				
Lightning Protection	DC Grounded				

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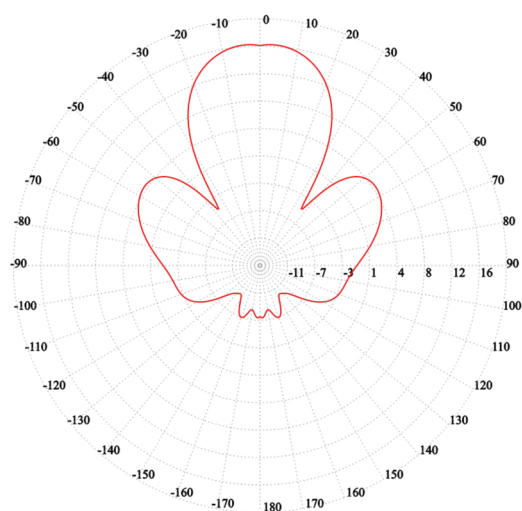


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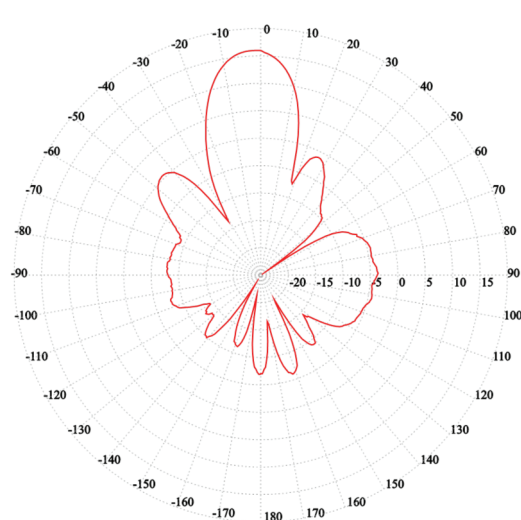
Specifications:

Antenna Pattern

Elevation @ 5.6GHz



Azimuth @ 5.6GHz



Ordering Info

Part Number: EN-3065-74C6

Description: EONTECH 3000 Alpha ODU, with an embedded antenna and connectorized for external antenna (2 x SMA), supporting multi frequency bands at 5.x GHz, factory default 5.4 GHz Universal.

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