

ascend dura



OptConnect ascend dura features 4G LTE CAT 4 connectivity and dual-carrier redundancy. Built for industrial IoT applications that require higher speed, with Wi-Fi, 1 WAN and 3 LAN ports, always-on connection, greater bandwidth for flexible interfaces, and real-time monitoring and management. Use it as a primary or backup internet source to guarantee a reliable connection with high data throughput and data redundancy in industrial sites.

For more information about the ascend dura, call us at 877-678-3343.



DUAL-CARRIER CONNECTIVITY



BLAZING FAST 4G LTE CAT 4



WI-FI & ETHERNET CONNECTIONS



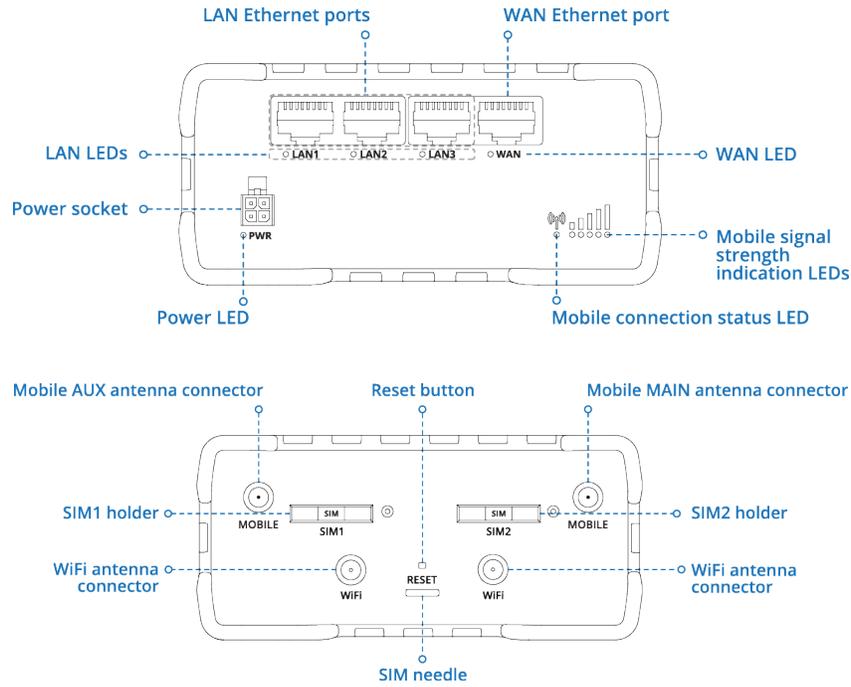
FULLY MANAGED SOLUTION





Features	Advantages
<ul style="list-style-type: none"> • Plug-n-play High-speed connectivity • Lightweight: 2.8 oz • Compact size: 4.3" x 2.0" x 3.9" • 4G LTE CAT 4 Connectivity • Dual Carrier with auto failover • Wi-Fi Wireless Access Point with Hotspot functionality • Rugged Aircraft grade Aluminum, Temp resistance -40c - +85 • 1 Full duplex transceiver WAN and 3 LAN ethernet ports • LED network and signal indicators • Single housing MIMO Cellular and MIMO Wi-Fi antenna • IP67 AC 18-24V, DC 9-30V power supply • 35mm DIN rail bracket • Low power consumption 4G 10-12.5 watts peak • Built-in Firewall - 2.2 • DHCP server for local automatic IP assignment • Can assign static IPs • NAT with VPN Passthru • Domain name addressable 	<ul style="list-style-type: none"> • High speed, high bandwidth for real-time monitoring & management of industrial equipment • Dual-carrier redundancy on Verizon & AT&T • Flexible WiFi and LAN connections for challenging physical layouts • Delivers high-speed and wide coverage • Cost-effective replacement for landline dialup circuits or analog cell-phones • Backup/redundant network connections for LANs • Ideal connectivity for Security & Surveillance, Access Controls, Building Management Systems (BMS), PLC controls and more • Remotely manageable and upgradeable • Saves time, money and improves business efficiency • Works with OptConnect Summit • Real-time device level monitoring, management, and support • 24/7/365 Technical Support • Multiple controllers/devices in single location • WiFi only irrigation controllers and gateways

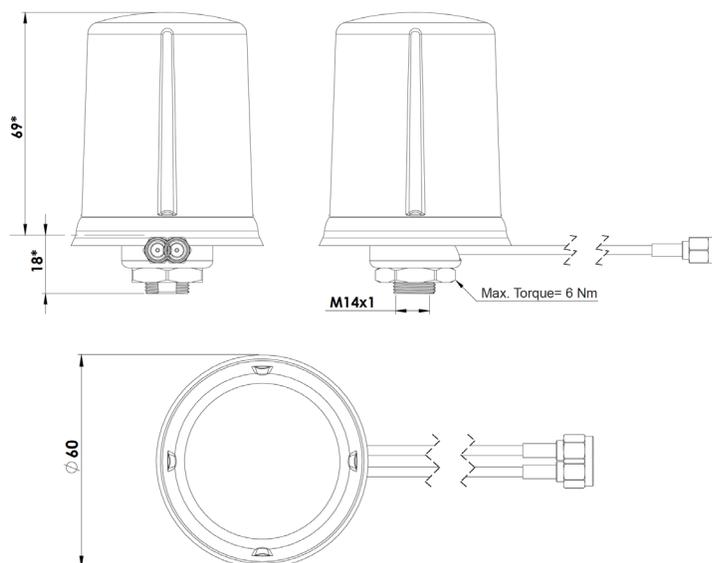
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Wireless WAN	
LTE CAT 4	4G (LTE) – Cat 4 up to 150 Mbps, 3G – Up to 42 Mbps, 2G – Up to 236.8 kbps
SIM Slots	2 internal 3FF Micro-SIM Slot
Antenna Connectors	2 x SMA for LTE, 2 x RP-SMA for WiFi
Ethernet	
Ports	4 - 1 WAN, 3 LAN
Connector	RJ-45
Standard	IEEE 802.3/IEEE 802.3u
Physical Layer	10/100 Base-T
Data Rate	10/100 MBit/s
Mode	Full or Half duplex
Interface	Auto MDI/MDIX
Management	
Fully Managed Service	OptConnect Summit
Protocol Support	TCP, UDP, IPv4, IPv6, ICMP, NTP, DNS, HTTP, HTTPS, FTP, SMTP, SSL v3, TLS, ARP, VRRP, PPP, PPPoE, UPNP, SSH, DHCP, Telnet, SMPP, SNMP, MQTT, Wake On Lan (WOL)
Power	
Input	9 – 30 VDC, reverse polarity protection; surge protection >31 VDC 10us max
Consumption	< 2 W idle, < 7 W Max
General	
LEDs	1 x bi-color connection status LED, 5 x connection strength LEDs, 4 x LAN status LEDs, 1 x Power LED
Relative Humidity	10% to 90% non-condensing
Approvals	
Regulatory	CE/RED, FCC, IC, PTCRB, RCM, EAC, RoHS, WEEE, IP rating, Anatel, GCF, TRA approval, REACH, DNV GL, Declaration of Software Security, Thailand NBTC, Ukraine UCRF, WiFi Certified, SDPPI (POSTEL)
Carrier Certifications	Certified by Verizon PTCRB, AT&T, and most major carriers

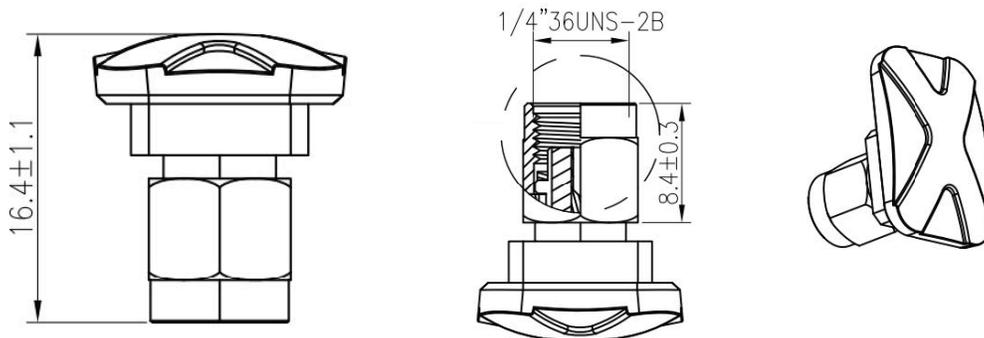
Agena Cellular Antenna Technical Specifications

Electrical Specifications	
Frequency	698 - 960 MHz, 1710 - 2170MHz 2500-2700 MHz
Nominal Impedance	50
VSWR	<2.7:1 @ 698-960 <1.5:1 @ 1710-2170 <1.4:1 @ 2500-2700
Radiation Pattern	Omnidirectional
Efficiency %	~66.9 @ 698-960 ~74.5 @ 1710-2170 ~58.9 dBi @ 2500-2700
Average Gain	4.2 dBi @ 698-960 2.9 dBi @ 1710-2170 3.0 dBi @ 2500-2700
Peak Gain	0.8 dBi @698-960 3.6 dBi @ 1710-2170 4.1 dBi @ 2500-2700
Polarization	Linear
Max Input Power	25
Environmental Specifications	
Operating Temperature	-40 to +85 C -40 to 185 F
Storage Temperature	-40 to +85 C -40 to 185 F
Substance Compliance	RoHS
Certificates	IP69, IK09



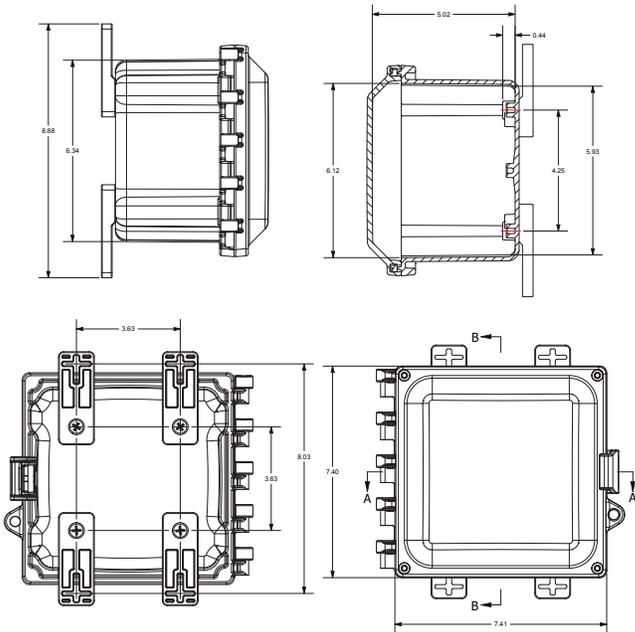
Wi-Fi Antennas Technical Specifications

Electrical Specifications	
Frequency	2400MHz - 2500MHz
Polarization	Linear
Main Antenna Gain	2dBi-5dBi
V.S.W.R	50 Ω
Connector	RP SMA(M)
Mechanical & Environmental Specifications	
Mounting Method	Direct Mount
Radome Ingress Protection Rating	IP67
Weight	6g
Housing Dimensions	19.8 x 16.4 x 14.3 mm
Cable	None
RoHS Compliant	Yes



DURA ENCLOSURE SPECIFICATIONS

6 x 6 x 4 Inches Polycarbonate Enclosure



Material (box & cover)	Polycarbonate with UV inhibitors	
Cover Screw Size	#10-32 x 5/8	
Cover Screw Material	304 Stainless Steel	
Back Panel Screw Size	#10-32x3/8	
Gasket Material	Neoprene rope style	
Hinge and Latch Hardware	Polycarbonate with UV inhibitors	
Metal Inserts	All threaded brass inserts accepting #10-32 screws	
Mounting Bosses	Panel mounting capability for fixed rear panel	
Mounting Feet Inserts	1/4-20x1/2	
Mounting Feet Torque	14-16in.-lbs	
Industry Standards		
Flammability Rating	UL94-5VA	
UL/cUL File #	E319779	
Impact Rating (IK10)	No	
CSA Std. C22.2 File #	No	
IEC 60529 Ratings	IP66	
NFPA No. 101 Flame Spread	N/A	
Outdoor UV Exposure (UL 746C)	(f1) Rated	
Plenum Space Rating (UL 2043)	No	
UL 1741 File #	No	
		   