

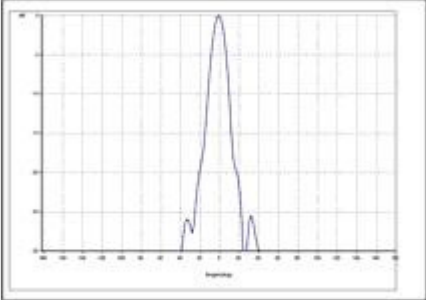
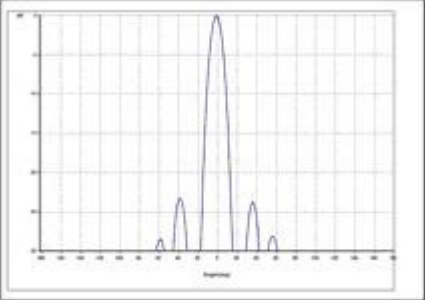
High Powered - Long Range Integrated Radio & Antenna



Interface	
Ethernet Interface	100 base-T Ethernet (RJ-45) with PoE
Wired LAN Protocol	IEEE 802.3 (CSMA/CD)
Wireless Interface	OFDM, TDD
Wireless LAN Protocol	IEEE 802.11a, Atheros 802.11a Turbo, WPM (Wireless Polling MAC)

Radio	
Modulation Technique	BPSK, QPSK, 16QAM, 64QAM
Supported Frequencies (Depending on User Configured Regulatory Domain)	Europe (ETSI): 5500-5700 MHz (11 channels) with DFS, USA (FCC): 5745-5825 MHz (5 channels), UK (OFCOM FWA): 5735-5835 MHz (4 channels) with DFS, Africa&Asia (OTHER): 4920-6100 MHz (236 channels, 5 MHz step)
Channel Width	User Selectable - 802.11a: 20 MHz, 10 MHz or 5 MHz or 40 MHz (802.11a Turbo)
Bit Error Rate (BER)	Better than 10^{-5}
Output Power	ETSI: < 30 dBm EIRP OFCOM: < 33 dBm EIRP FCC, Africa: < 47 dBm EIRP
Bit Data Rate (Mbps, 20MHz channel)	54 48 36 24 18 12 9 6
Receive Threshold (dBm) (including built-in antenna)	-95 -98 -103 -106 -110 -111 -112 -114

System	
Processor	ADM5120 175MHz MIPS 4Kc Processor with Embedded Cache
Memory	2MB NOR FLASH, 16MB SDRAM

RF Module	Atheros AR5006 with XR Technology							
Software								
Security	Association Protocol – ESSID, WEP 40/128, AES							
Features	Bridge, Router, NAT Router, PPPoE Client, Packet Filtering, QOS, DHCP Server/Client, Port Forwarding							
Physical								
Dimensions	320 mm X 320 mm X 100 mm							
Operating/Storage Temp.	-40°C - +70°C / -40°C - +85°C							
Enclosure	IP65 Rated, UV Protected, Outdoor Mountable, Weather Protected							
Antenna Radome	Plastic, UV Protected							
Power Adapter	15V / 1.2A DC, Passive Ethernet (Power over Ethernet injector included)							
LEDs	3 - Power, Ethernet LAN Activity, Wireless Activity							
Mounting	Adjustable Mast Mounting							
Antenna								
Built-in 23dBi Antenna Patterns	E-Plane				H-Plane			
								
Operational Distance (meters)								
Bit Data Rate (Mbps)	54	48	36	24	18	12	9	6
	6400	8600	11800	14400	18200	22400	32000	39000
Regulatory Compliance								
	CE mark, ETSI EN 301 893 Compliant, FCC Part 15 Compliant							

