

## Standard Intergrated Radio & Antenna



Interface	
Ethernet Interface	100 base-T Ethernet
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	
Supported Frequencies	Europe (ETSI): 5500-5700 MHz (11 channels) with DFS (Dynamic Frequency Selection), USA (FCC): 5180-5320 MHz (8 channels), 5745-5825 MHz (5 channels), UK (OFCOM FWA): 5735-5835 MHz (4 channels) with DFS (Dynamic Frequency Selection), Africa&Asia (OTHER): 4920-6100 MHz (236 channels, 5MHz step)
Modulation Technique	BPSK, QPSK, 16QAM, 64QAM
Channel Width	User Selectable - 802.11a: 20 MHz, 10 MHz or 5 MHz, 802.11a Turbo: 40 MHz
Bit Error Rate (BER)	Better than $10^{-5}$
Output Power	30 dBm EIRP, Four Selectable Levels (full, half, quarter, eight)
Bit Data Rate (Mbps)	54    48    36    24    18    12    9    6
Receive Threshold (including built-in antenna)	-81dBm   -83dBm   -86dBm   -88dBm   -90dBm   -92dBm   -95dBm   -98dBm

System	
Processor	175MHz MIPS 4Kc Processor with Embedded Cache
Memory	2MB NOR FLASH, 16MB SDRAM
RF Module	Atheros AR5006 with XR Technology

Security	
	Association Protocol - ESSID
	WEP 128, AES with 128bit key legth

Physical	
Dimensions	180 mm X 250 mm X 125 mm
Operating/Storage Temp.	-40°C - +70°C / -40°C - +85°C
Enclosure	IP65 Rated, UV Protected, Outdoor Mountable, Weather Protected
Power Adapter	12V/1.2A DC, Active Ethernet (PoE injector included)
LEDs	3 - Power, Ethernet LAN Activity, Wireless Activity
Mounting	Adjustable Mast Mounting

Antenna	
Built-in Antenna Patterns	<div style="display: flex; align-items: center;"> <div style="margin-right: 20px;">15dBi</div> </div>

Operational Distance	
Bit Data Rate (Mbps)	54    48    36    24    18    12    9    6
Distance (meters)	2700   3000   3300   3700   4100   4500   5100   6000

Regulatory Compliance	
	CE mark, ETSI EN 301 893 Compliant, FCC Part 15 Compliant