

ShadowAP

for Solid BroadBand Connections

For
Service Providers ■ Utilities ■ Municipalities/Counties ■ VARs
Systems Integrators ■ Carriers ■ Network Operators ■ Public Safety

Highlights

- Easy to Use User Interface
 - Robust Aluminum Housing
 - Mount to Existing Infrastructure
 - Data Rate Enhancements
 - Great Interference Rejection
 - Per user Bandwidth Shaping
 - 1/4, 1/2, Turbo Rate Options
 - Maximizes Spectrum Usage
 - Layer Two & Three Operation
 - Quality of Service Priority
 - VLAN Tagging & Routing
 - Virtual SSIDs
 - Multiple Security Features
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- Enhancement Modes Deliver more than Twice the Data Throughput
 - 5 or 2.4 GHz Integrated Antenna with an External Antenna Option
 - Radio is configurable from 2.3 to 2.5 GHz and 4.9 to 5.9 GHz
 - Full Internetworking Options for Routing, Bridging, Firewalls, Port Forwarding, Tunneling, Radius etc.
 - Multiple VLAN and Virtual SSID support for Service Separation in Wireless Deployments
 - LED Signal Strength for Easy Antenna Alignment
 - NEMA 4X and IP67 Compliant Housing
 - Low energy consumption power over Ethernet (PoE)
 - FCC Part 15 & Industry Canada RSS210 Certified



Solid Wireless BroadBand

ShadowAP

Technical Specifications

Radio		X 1
Frequency	802.11b/g 802.11a	2.400–2.483 GHz (custom Channel Plans available 2.3 to 2.5 GHz) 5.15 - 5.35 GHz, 5.47–5.825 GHz (custom Channel Plans Available 4.9 to 6.0 GHz)
Channels Support	802.11b/g 802.11a	14 channels (2.412 - 2.484 Ghz) 28 non-overlapping channels (5.15 - 5.35 GHz, 5.725–5.825 GHz) Note: (Depending on Jurisdiction & Licensing Channel Plans Available in Adjacent Bands)
Modulation	802.11a/g 802.11b	OFDM - Orthogonal Frequency Division Multiplex (64 & 16-QAM, QPSK, BPSK) DSSS Direct Sequence Spread Spectrum (DBPSK, DQPSK, CCK) FDM (BPSK, QPSK, 16-QAM, 64-QAM)
Antenna (Primary)		+ 16.8 dBi @ 5 GHz or +14.1 dBi @ 2.4 GHz (specify on order)
Output Power (antenna port) & Data Rates	802.11g 802.11b 802.11a	+ 14 dBm @ 54 Mbps, +19dBm @ 6 Mbps + 19 dBm @ 1, 2, 5.5, and 11 Mbps + 12 dBm @ 54 Mbps, + 18 dBm @ 54 Mbps
Receiver Sensitivity (10E-05 BER)	802.11g 802.11b 802.11a	-87 dBm @ 6 Mbps, -70 dBm @ 54 Mbps -94 dBm @ 1 Mbps, -87 dBm @ 11 Mbps -87 dBm @ 6 Mbps, -67 dBm @ 54 Mbps
Multiple Access Protocol	802.11a/b/g	CSMA/CA with ACK
Configuration		
Network Management Support		Console via Secure Shell (SSH), SNMP, Web Interface
Service & Security Protocols Supported		UDP, TCP, ICMP, 64, 128 & 154-bit WEP, WPA-PSK, WPA EAT/TLS, EAP/TTLS, EAP/PEAP, TKIP & AES ciphers, ACL w/per-user keys, enterprise (dynamic key) with 802.1x supplicant

Standards, Compliance and General Information

EMC & RF Compliance	EN 300-385, FCC Part 15, Industry Canada RSS210 Certified
Safety	EN 60950, UL1950
Environmental	ETS 300 019

Mechanical

Size	10.25 in (h) x 11.9 in (w) x 3.0 in (d) 26cm (h) x 29.5cm (w) x 7.6cm (d)
Weight	4.3 lbs (1.95 kgs)

Electrical

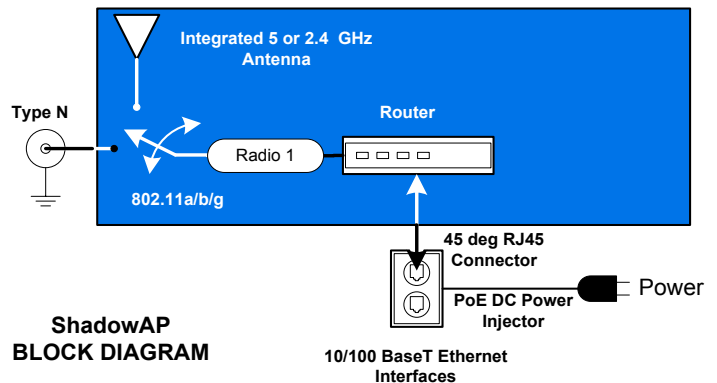
Power Supply	8W max., 9-20 VDC via the Power over Ethernet (PoE); -48 VDC with Converter
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Interfaces

RF (antenna)	1 - N-Type Female, Electrostatic Lightning Protection Strongly recommended.
User Interface	1 - 10/100 BaseT

Environmental

Operating Temperature	Outdoor units: -40°F to +140°F, -40°C to +60°C
Operating Humidity	5% to 95% non-condensing. Outdoor units are weather protected
Wind Survival	124 miles/hr (200 km/hr)



Product specifications subject to change without notice. April, 2010



Waveteq Communications Inc.

Suite 222 - 3121 Hill Road, Lake Country, B.C., Canada, V4V 1G1
<http://www.waveteq.com>, Phone: +1-250-766-9229, USA/Can +1-888-WaveTeq, Fax: +1-250-766-9221