

AP-5068 Series

Rugged Mobile & Outdoor Fixed Wireless Solution



AP-5068-HP

802.11a, 500mW, dual external antenna

AP-5068-L

802.11a, 100mW, dual external antenna

Overview

AP-5068 series is design for professional, mission critical wireless deployment where product reliability and durability coupled with large stable data throughput are crucial factors to the success of business operation.

Compliant to IEEE802.11 standards, all devices are tested to deliver a high data throughput of up to 20Mbps in normal mode and 45Mbps in turbo mode.

Housed in a ruggedized IP67 cast aluminum casing, the AP-5068 is design to withstand constant vibration; suitable for installing on moving vehicles both land and marine, as well as on fix outdoor location. It's ideal application include mobile broadband communication, ISP's base station and long distance backhaul ptp link of up to 25km. The LAN port is built with ESD protection which limits voltage surge of up to 8kV conducted and 15kV through air.

Key Features

- Up to 25km range with external antenna
- Outdoor waterproof IP67 Casing
- Up to 108 Mbps data rate
- 48V PoE supporting up to 100m Ethernet connection
- Dual antenna for receive diversity

Applications

The AP-5068 is design for a wide range of applications which include:

- Professional Vehicle (Land & Marine) WLAN Transceiver
- Mobile Broadband Communication
- Outdoor AP/Repeater/Bridge

Typical Performance

*Same Antenna gain at both AP and Client:**

Antenna	Link Distance	Achievable Throughput
20dBi	< 6km	18Mbps
24dBi	<11km	18Mbps
27dBi	<20km	18Mbps



Wireless

- IEEE 802.11 compliant
- AP5068: 4.9 ~ 5.875 GHz

Modulation

802.11b: DSSS: (DQPSK, DBPSK, CCK)
 802.11g & a: OFDM (64QAM, 16QAM, QPSK, BPSK)

Data Rate

Max. 108Mbps. Auto fall back to min. 6Mbps (g & a) & 1Mbps (b)

Tx Power & Control

AP5068-HP: Max. 27dBm

AP-5068: Max. 20dBm

RX Sensitivity

Data Rate (Mbps)	11a Sensitivity (dBm)	11b/g Sensitivity (dBm)
54	-71	-73
48	-74	-75
36	-81	-78
24	-84	-81
18	-87	-84
12	-88	-86
9	-89	-87
6	-90	-88
5.5	N/A	-88
2	N/A	-90
1	N/A	-91

Connector Type for External Antenna

Dual N-Type

Power Supply

- Passive Power over Ethernet, 48V_{DC} / 1.0A

Operation Mode

- Wireless Access Point
- Wireless Access Point + WDS
- Wireless Client
- Wireless Bridge

Encryption & Access Control

- WEP up to 152 bits
- MAC Address Control
- WPA and WPA2 with Radius Server for EAP-TLS, EAP-TTLS PEAP (EAP-GTC)
- MAC Address Control
- WPA-PSK (AES and TKIP)
- Wireless isolation

Management

- SNMP V1 & V2c
- IP address discovery software
- Wireless & Ethernet Statistics

QoS & Protocol Filtering

- Prioritization of data type
- IEEE 802.11e
- Broadcast, Multicast, PPPoE
- Disabling Broadcast/Multicast to Non-WDS Station

Regulatory Compliance

AP-5068: CE: EN 301 893 V1.3.1 (2005-08), RoHS

Power Consumption

Max. 11W

Environmental

- Operating temperature: -35°C to 70°C
- Humidity: Max 95%, non condensing
- Wind survivability: 120km/h

Standard Package

- AP-5068 module
- 48V_{DC} Passive PoE Injector
- 1.5m power cord with Euro Plug
- Pole mounting bracket Kit
- RJ45 Ethernet adapter waterproof assembly

Optional Accessories (AP-5068, 5GHz)

Description	Order Part No.
24dBi Patch Antenna	RFANT-5400W1G0P20
31dBi Grid Antenna	RFANT-50GP-31
CFD400 RF Cable, 1m	RFC-CFD400-010-NN
CFD400 RF Cable, 3m	RFC-CFD400-030-NN
RF Surge Arrestor	ARR-RF-03
LAN Surge Arrestor	ARR-LAN-01

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