



# **RFNet Technologies Pte Ltd**

## **Product Specifications**

### **Professional Outdoor 5GHz Wireless Access Point/Repeater/Bridge**



## **AP-5068-HP<sub>i/c</sub>**

Revision: 02-02

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- Specification are subject to changes without prior notice due to engineering improvement.
  - All brands and product names are trademarks or registered trademarks of their respective holders.
  - Wireless range and performance may vary with environment.

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## Model Explanation

Model "i": Industrial model,

For country require extreme operating temperature from -30C ~ +60C. (Such as Europe and North America).

Model "c": Commercial model,

For country accept operating temperature from 0C ~ +60C (such as south Asia).

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# 1 Wireless and Ethernet

Features	AP-5068-HP
Frequency	4900~5875 MHz
Max data rate, with Auto Fall Back	108Mbps
Max Radio TX Output	Up to 27dBm
Modes Supported	AP, Repeater, CPE
IEEE Wireless Standard	802.11a/h
IEEE Ethernet Standard	802.3, 802.3u (CSMA/CD)
Power Over Ethernet (PoE)	√
PoE Type	Passive PoE, non-3af compliant
Modulation	OFDM, BPSK, QPSK, 16-QAM, 64-QAM
Channels	Depends on country
Channel Bandwidth	less than or equal 20MHz
Channel frequency step size	5MHz
Best Channel Scanning at Power up	√ (AP Mode only)
Radio Channel Select	Determine by AP
Radio Power Control (3dB steps)	5 level from Max
Transmitter Spectral Masks	ETSI EN 301893
Transmitter spurious Emission	ETSI EN 301893
RX Sensitivity	-88dBm @ 6Mbps
	-87dBm @ 9Mbps
	-86dBm @ 12Mbps
	-84dBm @ 18Mbps
	-81dBm @ 24Mbps
	-78dBm @ 36Mbps
	-75dBm @ 48Mbps
	-73dBm @ 54Mbps
Antenna Type	2 ports for receive diversity, Tx/Rx & Rx

Max distance	Up to 25km, ptp
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## 2 Security and Access Control

Features	AP-5068-HP
Static WEP	Max 152 bits
WPA, 802.1x Support	√ (In AP mode only)
WPA_PSK	PassPhase with TKIP & AES Cipher
WDS (Wireless Distribution System)	√
Suppress SSID	√
Mac Access Control	√
Configuration file download (Telnet)	√
SNMP	V <sub>1</sub> , V <sub>2c</sub>
Firmware Upgrade	√
Filtering	Broadcast & Multicast
Web Based Management	√
Configurable Through Telnet	√
Save last good Setting	√
Software Reset	√
Software Factory Reset	√
Multiple FTP Pass Through	√
VLAN Transparent	√
Bandwidth Limiting with QoS*	√
QoS (priority for Voice and Multimedia)	√
Wireless Client to Client Isolation	For AP Mode

\*Note: When enabled this feature, the data bandwidth is set, and the balance bandwidth will be used for live data such as video and VoIP packets.

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### 3 Management

<b>Features</b>	<b>AP-5068-HP</b>
Frequency	√
Bandwidth	√
Auto Associate to AP with same ESSID	√
Seamless Roaming	√
DHCP Client, Auto Negotiate for IP	√
No of clients associations supported (AP mode)	250
No of concurrent users supported (AP mode)	50
No Wireless uplink supported (Repeater mode)	1
No of concurrent users supported (Repeater mode)	30
Static IP	√
Wireless Association Status	√
Password Access control to configuration	2 Levels
Ping from Device	Thru Telnet
Firmware upgrade on the fly (without interfere operation, but need reboot to start new firmware)	√

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## 4 Monitoring

Features	AP-5068-HP
User pre-set Range between BS for optimum performance	✓
Uplink & Downlink packets & Bytes Counters	✓
Software Version	✓
Hardware Version	✓
MAC Address	✓
Signal Strength	✓
MIR Classification	✓

## 5 Physical, Electrical and Environment

Features	AP-5068-HP
Weight (estimate)	1200gm, module only
Dimension (estimate)	214 x 121 x 48mm
Power Requirement (estimate)	11W max
Operating Temperature i (industrial model)	-35°C ~ +60°C
Operating Temperature C (commercial model)	0°C ~ +60°C
Humidity, non condensing	Max 95%
Wind Speed Support	120km/h
Waterproof rating	IP67
Random Vibration (IEC-68-2-64)	✓
Shock (IEC-68-2-29)	✓
Drop (IEC-68-2-32)	✓
Salt Fog (IEC-68-2-11)	✓
Solar Radiation (IEC-68-2-5)	✓
RoHS	✓
Safety	EN 60950
EMC and RFI	EN301893 + EN301489
ESD	IEC 61000-4-2

Lightning Protect at Ethernet Port	√
Certification	CE
Warranty	1.5 years

## 6 Appendix A: Factory Default

No	Item to Set	AP-5068-HP	Remark
1	Device Mode	Access point	
2	ESSID	11a	
3	WEP	Disable	
4	User ID (for configuration)	admin	All lower case.
5	Password (for configuration)	admin	All lower case
6	Default static IP address and subnet	Enable	IP addr: 192.168.1.20 Subnet : 255.255.255.0 Default gateway: 0.0.0.0
7	DHCP client	Disable	With "Static IP" set on
8	Radio Power	100%	configurable
9	Super User ID (for upgrading of firmware)	super	All lower case
10	Password for Super user	super	All lower case

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## **7 Appendix B: Standard Packaging**

The standard package shall include the following:

1. One AP-5068-HP
2. One 48VDC PoE combiner module
3. One power cord
4. 3m RJ45 cable with IP67 connector
5. Screws and washers for bracket
6. Wall and Poll Mounting bracket
7. One CD (User manual)
8. Quick Install Guide
9. one Dual band omni antenna
10. one N jack metal cover