

Tube-2HP

802.11n Long-Distance Outdoor AP/CPE



Tube-2HP
[N male]



Tube-2HPF
[N female]

IP68 Waterproof certificated



Standard 1/4" screw



802.3at/af PoE



OpenWRT friendly upgrade by web

ALFA
Firmware



OpenWrt
Wireless Freedom

Applications



【Villa】

【Construction Area】

【Campus】



【Residential Area】



【Security】

Tube-2HP

802.11n 2.4GHz Outdoor AP/CPE

Specifications

Chipset	AR9331	Operation Mode	AP Bridge AP Router Client Bridge Client Router WDS Bridge
Standard	IEEE 802.11bgn IEEE 802.3at/af	Security	64/128bit WEP WPA(TKIP with IEEE 802.1x) WPA2(AES with IEEE 802.1x) WPA Mixed 802.1x authentication
Frequency	2.4GHz ISM Band	Operation Temperature	-20°C ~ 65°C
Flash/SDRAM	16 M / 64 M	Storage Humidity	5% ~ 90% (Non-condensing)
Antenna Connector	Tube2HP: N male Tube2HPF: N female	Dimension(mm)	176 x 38
Channel Width (Note: 5/10/20/40M future firmware upgradeable)	20/40M	Weight	125g
Data Rate	802.11b: up to 11Mbps 802.11g: up to 54Mbps 802.11n: up to 150Mbps		
LED Indicated	Signal, LAN, Power		
PoE	Standard 802.3at/af non-isolation PoE		
* Standard package doesn't included PoE adapter			

RF Specifications [Tolerance \pm 2dB]

Data Rate	TX	RX	Data Rate	TX	RX
11n MCS7	22	-72	11g 54Mbps	23	-75
11n MCS6	23	-74	11g 48Mbps	25	-77
11n MCS5	25	-75	11g 36Mbps	26	-80
11n MCS4	26	-80	11g 24Mbps	27	-82
11n MCS3	27	-83	11g 18Mbps	27	-84
11n MCS2	27	-86	11g 12Mbps	27	-86
11n MCS1	27	-89	11g 9Mbps	27	-88
11n MCS0	27	-90	11g 6Mbps	27	-90
			11b 11Mbps	27	-90
			11b 5.5Mbps	27	-92
			11b 2.2Mbps	27	-94
			11b 1Mbps	27	-95

Order Information

Tube-2HP	Tube-2HP + Plastic Strap
Tube-2HPF	Tube-2HPF + Plastic Strap
Tube-2HP Full Package	Tube-2HP + Plastic Strap + APOE48V-1G (PoE Adapter) + AC cable
Tube-2HPF Full Package	Tube-2HPF + Plastic Strap + APOE48V-1G (PoE Adapter) + AC cable

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Suggestion Omni Antenna

For Tube-2HP

- **AOA-2405TF**
– 2.4GHz 5dBi N female
- **AOA-2409TFL**
– 2.4GHz 9dBi N female
- **AOA-2409N**
– 2.4GHz 9dBi N female with pole mount
- **AOA-2405N** – 5dBi N female
– 2.4GHz 5dBi N female with pole mount



For Tube-2HPF

- **AOA-2405TM**
– 2.4GHz 5dBi N male
- **AOA-2409TM**
– 2.4GHz 9dBi N male
- **AOA-2405TPM**
– 2.4GHz 5dBi N male

