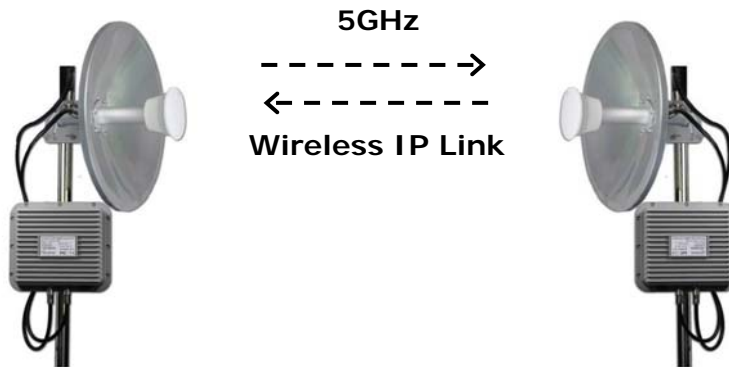


5GHz Wireless IP Link

Model: MiP-5801/5802/5803



Main Feature:

- Frequency range: 5.15-5.825GHz
- Support 2 x 2 MIMO Technology
- Max TX power: 300mW (25dBm)
- RX sensitivity: -95dBm
- Transmission distance from 10 to 30km
- Max bit rate: 350Mbps
- Support up to 10 multiple hops
- WPA / WPA2 PSK / EAP with TKIP / CCMP AES based Encryption
- Router mode / Bridge mode
- Ethernet port: 2xRJ-45, 10/100/1000 Base-TX MDI/MDIX
- Support QoS/WMM
- PoE power supply
- Remote management by web, telnet, SSH, SNMP, etc
- Telecom-grade service with IP67 protection level
- High gain parabolic antenna 0.6m and 1.2m
- Digital HD/SD TV encoder decoder with IP interface in option

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Technical Specification:

Hardware Configuration:	
Main Processor	Atheros AR7161(680MHz)
Wireless Chipset	Atheros AR9220 based mini-PCI module, Up to three modules
Switch Controller	Atheros AR8035 / Atheros AR8021
Flash Memory	16Mbytes
SDRAM	128Mbytes
Console	UART x 1(PCBA onboard)
RTC	Onboard RTC
PoE	48V 1A PoE
Ethernet	10/100/1000 Mbps Speed Support
Watch dog	Hardware watch dog
Frequency Range	
	USA : 5.15~5.35GHz, 5.5 ~ 5.7 GHz, 5.725 ~ 5.825 GHz
	Europe: 5.15 ~ 5.35 GHz, 5.47 ~ 5.725 GHz
	Japan: 5.15 ~ 5.35 GHz, 5.47 ~ 5.725 GHz
	China: 5.725 ~5.85 GHz
Output Power	
IEEE802.11a	24dBm@6M, 21dBm@54M
IEEE802.11b	24dBm@1M, 4dBm@11M
IEEE802.11g	25dBm@6M, 22dBm@54M
IEEE802.11a/n	24dBm@MCS0/8, 18dBm@MCS7/15(5180MHz),
High Throughput(HT)20	17dBm@MCS7/15(5825MHz)
IEEE802.11a/n	22dBm@MCS0/8, 17dBm@MCS7/15(5190MHz),
High Throughput(HT)40	16dBm@MCS7/15(5795MHz)
IEEE802.11g/n	25dBm@MCS0/8, 21dBm@MCS7/15
High Throughput(HT)20	
IEEE802.11g/n	24dBm@MCS0/8, 20dBm@MCS7/15
High Throughput(HT)40	
Receiver Sensitivity	
IEEE802.11a	-82dBm@6M for 1RX; -95/-91dBm@6M for,2RX -65dBm@54M for 1RX, -79/-75dBm@54M for 2RX
IEEE802.11b	-82dBm@1M,1Rx,-92/-88dBm@1M,2Rx, -76dBm@11M,1Rx, -92/-88dBm@11M,2Rx
IEEE802.11g	-82dBm@6M,1Rx,-95/-91dBm@6M,2Rx, -65dBm@54M,1Rx, -80/-76dBm@54M, 2Rx
IEEE802.11a/n	-82dBm@MCS0 for 1Rx, -95/-91dBm@MCS0 for 2Rx

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High Throughput(HT)20	-64dBm@MCS7, 1Rx, -77/-73dBm@MCS7, 2Rx
IEEE802.11a/n	-79dBm@MCS0, 1Rx, -91/-87dBm@MCS0, 2Rx
High Throughput(HT)40	-61dBm@MCS7, 1Rx, -73/-69dBm@MCS7, 2Rx
IEEE802.11g/n	-82dBm@MCS0, 1Rx, -95/-91dBm@MCS0, 2Rx
High Throughput(HT)20	-64dBm@MCS7, 1Rx, -77/-73dBm@MCS7, 2Rx
IEEE802.11g/n	-79dBm@MCS0, 1Rx, -92/-88dBm@MCS0, 2Rx
High Throughput(HT)40	-61dBm@MCS7, 1Rx, -74/-70dBm@MCS7, 2Rx

Bridge Mode:

Layer 2 Switching Learning Technology

Store-and-Forward

Spanning Tree Protocol – IEEE 802.1d STP / IEEE 802.1w RSTP

Static IP

DHCP server / client

IEEE 802.1q Tag VLAN

IEEE 802.1p VLAN Priority Based QoS

Wireless Interface:

IEEE 802.11 a/b/g/n 5GHz Band Radio

2 x 2 MIMO Technology

Single Radio / Dual Radios / Triple Radios

Access Point/Wireless Station/ Access Point(WDS)/ Wireless Station(WDS)/M Mode/Mobility Modes

WDS Support enable / disable

IEEE 802.11h DFS

WMM QoS

Channel / Tx Power / Data Rate / Max Distance Adjustable

Multi-SSIDs / VLAN tags mapping(Up to 16 x ESSIDs for each radio)

Wireless Site Survey

Node Information, Concurrent Connected Node Limitation

Client User Isolation

Wired Interface:

Gigabit Ethernet with 48V 1A PoE,

Compliant with IEEE802.3 / 802.3u / 802.3at

Ethernet Link Speed Configurable

10/100/1000 Base-TX MDI/MDIX RJ-45 x 1

Network speed:

TCP

Up to 180Mbps for one radio to Ethernet

Up to 320Mbps for multiple radios to Ethernet

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UDP	Up to 240Mbps for one radio to Ethernet
	Up to 350Mbps for multiple radios to Ethernet
PPS	>= 20,000@short packet for one radio to Ethernet
	>= 28,000@short packet for multiple radios to Ethernet
Latency	< 5ms
Multiple Hop:	
Number of hop	Up to 10
Speed	Up to 160Mbps for 2 hops
	Up to 150Mbps for 3 hops
	Up to 140Mbps for more than 4 hops
PPS	>= 20,000@short packet at multiple hops
Latency	< 10ms
Security:	
	Hide SSID(turn off ESSID broadcasting)
	MAC Address ACL
	WEP 64/128/152 bits
	IEEE 802.1x EAP-MD5 / EAP-TLS / EAP-TTLS
	WPA / WPA2 PSK / EAP with TKIP / CCMP AES based Encryption
Management:	
	HTTP(s) WEB GUI, Telnet, SSH
	CLI commands ,Console(optional interface)
	SNMP v2c/v3, standard / private MIBs
	Syslog
	Management VLAN Tag
	NTP Client
	Firmware upgrade / downgrade
	Dual Configuration files / Factory Default, Dual Images
	Multiple Level Management
Physical:	
Power supply	PoE 48V-1A
RJ-45	Gigabit Ethernet Link
RF port	N-female
Dimensions	220 x 220 x 77 mm
Weight	2.0kg(3.7kg mount kit included)
Temperature Range	-30 ~ 70°C
Humidity	0~95%

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5GHz Wireless IP Link

Model: MiP-5801/5802/5803



Typical application



MiP-5801



MiP-5802



MiP-5803

Order Information:

Model	Product Description
MiP-5801	Single channel Wireless IP Link
MiP-5802	Dual channel Wireless IP Link
MiP-5803	Triple channel Wireless IP Link
Ant-P-23	Parabolic dish diameter 0.6m, gain 23 dB
Ant-P-34	Parabolic dish diameter 1.2m, gain 34dB

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