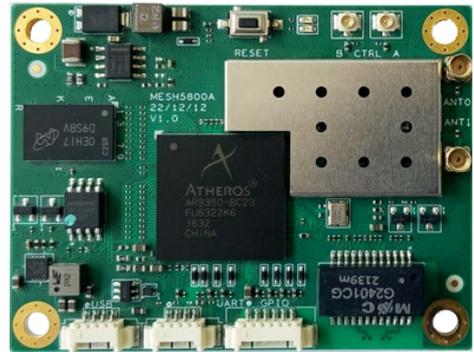


MESH5800A is a 5.8 GHz 802.11n single-board WiFi module launched by Zencheer. Measuring only 50 × 66 mm, it is suitable for applications such as UAV mesh networking and broadband data transmission. MESH5800A supports 2×2 MIMO, with up to 24 dBm RF output power per channel. Customers can choose the appropriate interface options based on their needs, customize the overall enclosure dimensions, and develop compact broadband data-link devices.

Key Features

- Up to 24 dBm output power per channel
- Compact size: only 50 × 66 mm



Specifications

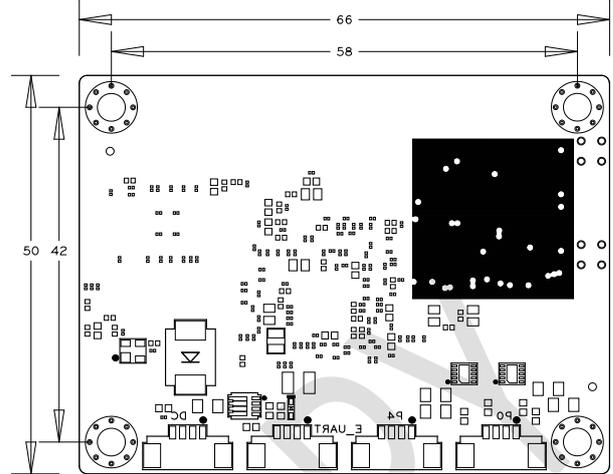
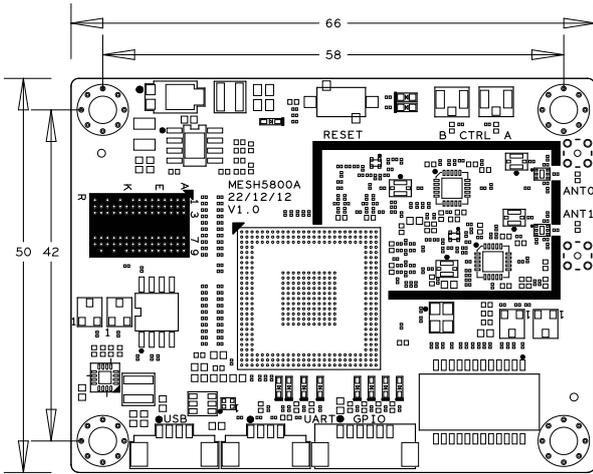
Frequency Range	5180–5825 MHz	Bootloader	U-Boot
Channel Bandwidth	5/10/20 MHz adjustable	Linux Kernel	Linux kernel 3.18.19
Output Power	0.25 W	Wired Network	Configurable IP address Configurable subnet mask
Rx Sensitivity	–90 dBm	Wireless Network	Adjustable operating frequency Adjustable channel bandwidth Adjustable output power
Modulation	OFDM BPSK/QPSK/16-QAM/64-QAM	Management	Supports ad-hoc mode Configurable ESSID/BSSID Supports adaptive rate and fixed-rate modes Supports distance optimization Supports RTS/CTS settings Connection status display Web-based management Secure management via SSH Import/export configuration Restore factory settings Online firmware update
Data Rate	80 Mbps max		
Antenna	2 MMCX		
Ethernet	Two 10/100 Mbps Ethernet ports (using 1.25 mm pitch 4-pin connectors)		
Interfaces	One USB 2.0 Host port (using a 1.25 mm pitch 4-pin connector) One data UART (using a 1.25 mm pitch 4-pin connector) Four GPIOs (using a 1.25 mm pitch 6-pin connector)		
Tx/Rx Control¹	2 IPEX		
Button	1 factory reset button		
Power Supply	9–48 V DC (using a 1.25 mm pitch 4-pin connector)		
Dimensions	50 × 66 × 10 mm		
Temperature	Storage: –40 °C to +125 °C Operating: –20 °C to +65 °C		
Weight	21 g		

Interface Definitions

DC (Power Supply)		E_UART (UART)		P4 (Ethernet)		P0 (Ethernet)		UART (Debug)		USB		GPIO	
1	VIN+	1	3.3 V	1	RXP	1	RXP	1	3.3 V	1	5 V	1	3.3 V
2	VIN+	2	RXD	2	RXN	2	RXN	2	RXD	2	D-	2	GPIO18
3	VIN-	3	TXD	3	TXP	3	TXP	3	TXD	3	D+	3	GPIO14
4	VIN-	4	GND	4	TXN	4	TXN	4	GND	4	GND	4	GPIO15
												5	GPIO20
												6	GND

¹High-level output in TX mode and low-level output in RX mode, logic level: 3.3 V.

Physical Size



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