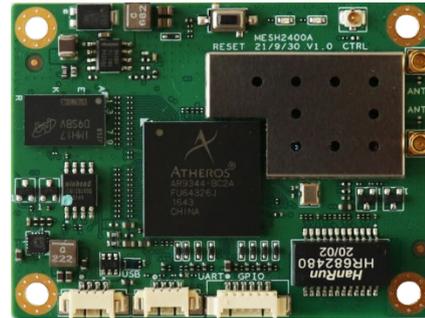


MESH2400A is a 2.4 GHz 802.11n single-board WiFi module launched by Zencheer. Measuring only 50 × 66 mm, it is suitable for applications such as UAV mesh networking and broadband data transmission. MESH2400A supports 2×2 MIMO, with up to 27 dBm RF output power per channel. Customers can choose the appropriate interface options based on their needs, customize the overall enclosure dimensions, and develop compact WiFi devices.



### Key Features

- Up to 27 dBm output power per channel
- Compact size: only 50 × 66 mm

### Specifications

<b>Frequency Range</b>	2412–2462 MHz
<b>Channel Bandwidth</b>	5/10/20 MHz adjustable
<b>Output Power</b>	0.5 W
<b>Rx Sensitivity</b>	–90 dBm
<b>Modulation</b>	OFDM BPSK/QPSK/16-QAM/64-QAM
<b>Data Rate</b>	80 Mbps max
<b>Antenna</b>	2 MMCX
<b>Ethernet</b>	Two 10/100 Mbps Ethernet ports (using 1.25 mm pitch 4-pin connectors)
<b>Interfaces</b>	One USB 2.0 Host port (using a 1.25 mm pitch 4-pin connector) One com port (using a 1.25 mm pitch 4-pin connector) Four GPIOs (using a 1.25 mm pitch 6-pin connector)
<b>Tx/Rx Control<sup>1</sup></b>	1 IPX
<b>Button</b>	1 factory reset button
<b>Power Supply</b>	9–48 V DC (using a 1.25 mm pitch 4-pin connector)
<b>Size</b>	50 mm*66 mm*10 mm
<b>Temperature</b>	Storage: –40 °C to +125 °C Operating: –20 °C to +65 °C
<b>Weight</b>	21 g

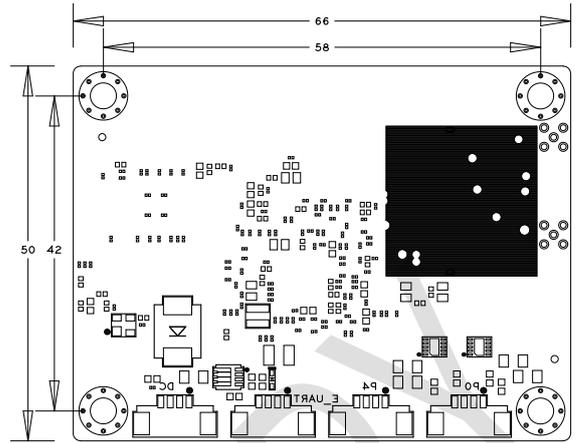
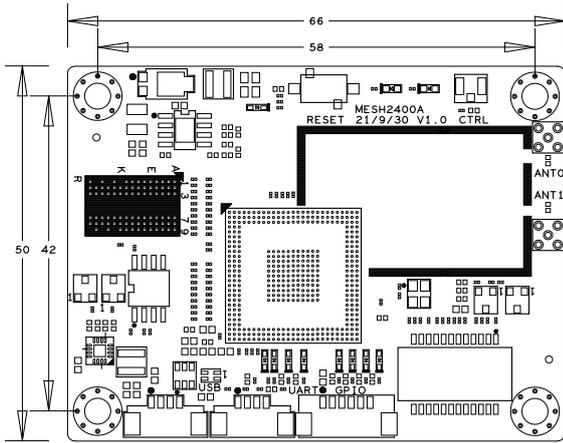
<b>Bootloader</b>	U-Boot
<b>Linux Kernel</b>	Linux kernel 3.18.19
<b>Wired Network</b>	Configurable IP address Configurable subnet mask
<b>Wireless Network</b>	Adjustable operating frequency Adjustable channel bandwidth Adjustable output power Supports ad-hoc mode Configurable ESSID/BSSID Supports adaptive rate and fixed-rate modes Supports distance optimization Supports RTS/CTS settings Connection status display Web-based management
<b>Management</b>	Secure management via SSH Import/export configuration Restore factory settings Online firmware update

### Pin Definitions

DC (Power Supply)		E_UART (Com Port)		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

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

Physical Size



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