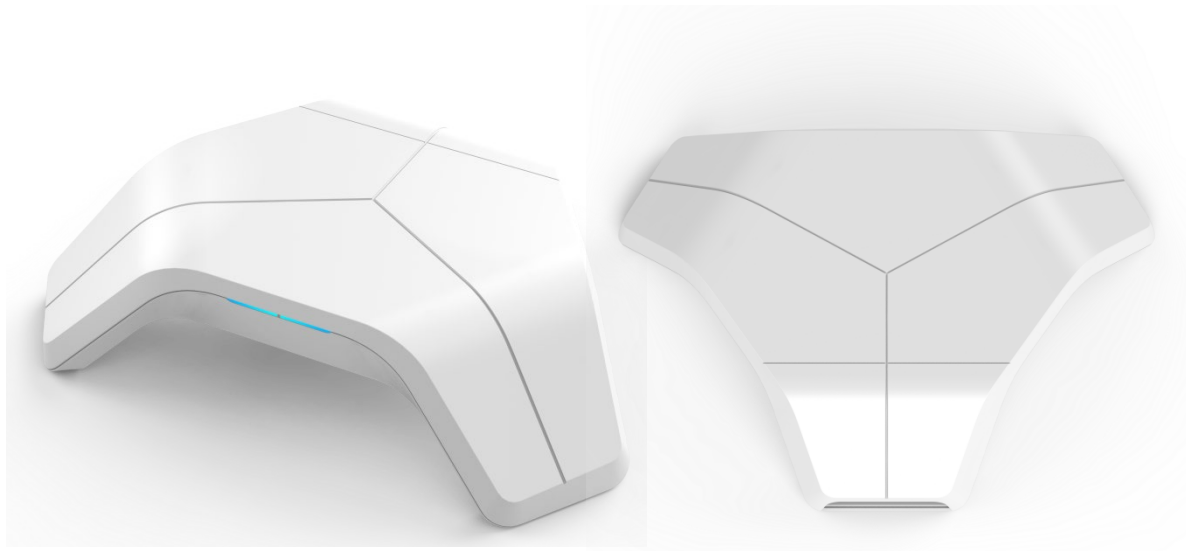


Todaair

Product Specification

TD-MRT42 V40.1

Date: 1st/Mar/2023



Product Overview

TD-MRT42 V40.1 is a Home Wi-Fi 6 Coverage MESH Router developed by Todaair, with built-in Nona Flash and supports up to 8GB.

It supports for two power supply modes: DC 12V power input and POE 48V IEEE802.3bt power input.

Features

- 3 * 1000Mbps RJ45;
- Support 802.11 b/g/n/ac/ax 2x2:2;
- Support 802.11 a/n/ac/ax 2x2:2;
- Supports 1*Network Port IEEE802.3bt Power Input;
- Supports 2*Network Port IEEE802.3af/at Power Output;
- Supports DC 12V 1.5A Power Supply;
- Dual Band Wi-Fi 6 with Mesh Routing

Hardware Specification

| | | | | |
|----------------------------------------|-------------------------------------------------------------------------------------------------------|-----------|---------|---------|
| Chipset | MT7621AT/A+MT7975DN+MT7905DN | | | |
| DRAM | DDR3 128MByte | | | |
| FLASH | 16MByte | | | |
| Power Amplifier IC | 2.4G / 5.8G MT7905DN | | | |
| Wired Interface | 10/100/1000Mbps 1*WAN input, 2*LAN output | | | |
| Date Rate 2.4G | 580Mbps | | | |
| Date Rate 5.8G | 1201Mbps | | | |
| Modulation Mode | OFDM/BPSK/QPSK/CCK/DQPSK/DBPSK | | | |
| Standard | IEEE802.11a,IEEE802.11n,IEEE802.11g,IEEE802.11b,IEEE802.3u, IEEE802.3af,IEEE802.11ac,IEEE 802.11ax | | | |
| Frequency Range | 2.4G 2412Mhz~2472Mhz / 5.8G 5180Mhz~5825Mhz | | | |
| Power Consumption | ≤15W | | | |
| Power | DC 12V 1.5A/POE 48V IEEE802.3bt | | | |
| RF Power @25°C±2Db 2.4G | 802.11b | 20±2dBm | | |
| | 802.11g | 6-24Mbps | 20±2dBm | |
| | | 36-48Mbps | 20±2dBm | |
| | | 54Mbps | 20±2dBm | |
| | 802.11n | HT20 | MCS 7 | 20±2dBm |
| | | HT40 | MCS 7 | 20±2dBm |

| | | | | | |
|----------------------------------------------------|----------|-----------|---------|---------|--|
| | 802.11ax | HT20 | MCS0/12 | | |
| | | HT40 | MCS2/14 | | |
| RF Power @25°C±2dB 5.8G | 802.11a | 6-24Mbps | 20±2dBm | | |
| | | 36-48Mbps | 18±2dBm | | |
| | | 54Mbps | 17±2dBm | | |
| | 802.11ac | HT20 | MCS 0-3 | 20±2dBm | |
| | | | MCS 4 | 20±2dBm | |
| | | | MCS 5 | 19±2dBm | |
| | | | MCS 6 | 18±2dBm | |
| | | | MCS 7 | 18±2dBm | |
| | | HT40 | MCS 0-3 | 20±2dBm | |
| | | | MCS 4 | 19±2dBm | |
| | | | MCS 5 | 19±2dBm | |
| | | | MCS 6 | 18±2dBm | |
| | | HT80 | MCS 3 | 20±2dBm | |
| | MCS 4 | | 19±2dBm | | |
| | MCS 5 | | 19±2dBm | | |
| | MCS 6 | | 18±2dBm | | |
| | MCS 7 | | 18±2dBm | | |
| 802.11ax | HT80 | MCS0/12 | 17±2dBm | | |

| | | | | |
|------------------------------------------|-------------------------------|--------------------------------------------------------------|------------------------------------|---------------|
| | IEEE 802.11b | 11Mbps \leq -85dBm | MCS6/18 | 17 \pm 2dBm |
| Sensitivity 2.4G | IEEE 802.11g | 54Mbps \leq -70dBm | | |
| | 802.11n | HT20 | MCS 7 \leq -65dBm | |
| | | HT40 | MCS 7 \leq -62dBm | |
| Sensitivity 5.8G | 802.11a | 6Mbps \leq -89; 54Mbps \leq -73 | | |
| | 802.11ac | HT20 | MCS 0 \leq -94; MCS 7 \leq -76 | |
| | | HT40 | MCS 0 \leq -92; MCS 7 \leq -76 | |
| | | HT80 | MCS 0 \leq -90; MCS 7 \leq -67 | |
| | 802.11ax | HT80 | MCS0 \leq -85; MCS 12 \leq -60 | |
| Antenna System | Frequency Range | 2.4G Antenna 2412Mhz~2484Mhz 5.8G Antenna 5150Mhz~5850Mhz | | |
| | Polarization | Omnidirectional | | |
| | Gain | 4DBi*4 | | |
| Operating/Storage Environment | Operating Temperature | -30 ~ 60°C | | |
| | Storage Temperature | -50 ~ 80°C | | |
| | Humidity(non-concentrated) | \leq 95% (Non-condensed) | | |
| Size & Weight | Bare Metal Size: 265*190*65mm | | | |
| | Bare Weight: 0.45kg | | | |
| Package Size & Weight | Size: 325*235*70mm | | | |
| | Weight: 1.06kg | | | |
| Package List | 1* TD-MRT42 V40.1 | | | |
| | 1* Cable | | | |
| | 1* Quick Installation Guide | | | |
| | 3* Rubber Stick | | | |
| | 3* Screw | | | |

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