



# TR-224 Industrial Router DataSheet



Dual-Core Processing



Supports 4G/5G



Wireless Interface



Reverse Polarity Protection



Disconnection Detection

TR-224 is an industrial grade cellular router designed with industrial grade protection, wide temperature range, wide voltage range, etc. It can easily build a high-speed and stable cellular transmission network. Provide cellular long-distance data transmission services to users using public LTE networks (or VPDN proprietary networks). It has the characteristics of strong universality, standardized interfaces, wide application industries, stable performance, and applicability to complex environments. It can be widely used in various industrial Internet, intelligent transportation, robots and other industries around the world.



(1)Power adapter



(2)4G antenna

# Technical Specifications

| Category                     | Items                       | Features                                                        |
|------------------------------|-----------------------------|-----------------------------------------------------------------|
| Basic Information            | Power supply                | DC power supply: 12-36V                                         |
|                              | Cellular Interface          | IEEE 802.11 a/b/g/n/ac                                          |
|                              | Operating frequency band    | 2.4G:2.4-2.4835GHz 5G:5.180-5.885GHz                            |
|                              | Main chip                   | MTK series                                                      |
|                              | Antenna                     | SMA external rotation inner hole                                |
|                              | WIFI transmission rate      | 7628: 300Mbps                                                   |
|                              |                             | 7621: 1200Mbps                                                  |
|                              | External interface          | LAN ports: 5 100Mbps Ethernet ports (LAN0 is WAN/LAN adaptive)  |
|                              |                             | SIM card slot: double-layer                                     |
|                              |                             | Antenna interface: 4                                            |
|                              |                             | Indicator lights: 8                                             |
|                              |                             | DC power supply interface: 1 (DC2.1)                            |
|                              |                             | Reset button: 1                                                 |
|                              |                             | 4G LTE+2*LAN 100Mbps                                            |
|                              |                             | 1*RS485;1*RS232                                                 |
|                              | Overall dimensions          | Length, width, and height: 116 * 134 * 34mm (antenna interface) |
|                              | Power consumption (current) | Less than 400mA                                                 |
| Data Information             | Data rate                   | 802.11n: up to 300Mbps                                          |
|                              |                             | 802.11b: 1, 2, 5, 11Mbps                                        |
|                              |                             | 802.11g: 6, 9, 12, 18, 24, 36, 48, 54Mbps                       |
| Output Power                 | Transmit power              | 11n HT40 MCS7: +13.5dBm                                         |
|                              |                             | 11b CCK: +18 dBm                                                |
|                              |                             | 11g OFDM: +13.5dBm                                              |
|                              | Receiving sensitivity       | -66dBm at 150Mbps                                               |
|                              |                             | -73dBm at 54Mbps                                                |
|                              |                             | -86dBm at 11Mbps                                                |
| Temperature & Humidity Range | Working environment         | Working temperature: -40 ° C ~ +75 ° C                          |
|                              |                             | Storage temperature: -40 ° C ~ +80 ° C                          |
|                              |                             | Humidity: 5%~95%, no condensation                               |
| Functions                    | Electric Meter Protocols    | DL/T 645-2007, IEC 62056-21, IEC 1107, IEC 61850, DLMS          |
|                              | Industrial Protocols        | MODBUS RTU, MODBUS TCP, BACnet, M-bus, OPC UA                   |



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