

# DH-WM4720-OW

## Industrial 4G Router



- 4G high-speed cellular network.
- Wi-Fi 6 high-speed transmission.
- L2TP/IPsec VPN.
- Easily switches between LAN and WAN.
- Supports IPv6 network access and DHCP allocation.
- APN configuration.

### System Overview

Dahua Industrial 4G Router is a high-performance wireless transmission device that converts 4G signals into wired networks and Wi-Fi. It not only provides access to terminals, but is also specially designed to meet industrial-grade standards. The router comes with 15kV electrostatic protection, 4kV lightning protection, and creates a stable and reliable network environment to perform industrial operations in.

### Functions

#### 4G

Supports a variety of 4G standards and fits all mobile networks.

#### 1800 Mbps Wireless Speed

Supports 2.4G and 5G dual-band Wi-Fi, and complies with the IEEE 802.11ax standard. The wireless speed of the device can also reach up to 1800 Mbps, allowing smooth internet access.

#### Multi-WAN Load Balancing

Supports multiple WAN link load balancing modes based on carrier destination IP address, WAN link bandwidth, and policy-based routing.

#### VPN Encryption

L2TP VPN and multiple types of encryption algorithms are supported, making it more convenient for enterprises to build virtual private networks through the internet.

#### Wide Operating Temperature (−40 °C to +75 °C)

Supports working at ambient temperatures of −40 °C to +75 °C, and has built-in professional mine-proof circuits, effectively reducing the impact of thunderstorms on network systems and improving system robustness, adapted to harsh environments.

#### Wide Voltage (9–36 VDC)

Supports power input from 9 VDC to 36 VDC, which effectively enhances power compatibility and allows for multiple types of power supply.



### Scene

Equipped with a 1-meter external antenna, it is suitable for use in industrial environments such as chassis and machine rooms.

### Technical Specification

#### Function

|                                  |                                                                                                                                           |
|----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| Management and Log               | Syslog; SSH; NTP                                                                                                                          |
| Webpage Configuration Management | Web configuration                                                                                                                         |
| Firmware Update                  | Web update; ConfigTool                                                                                                                    |
| Network Protocol                 | UDP; HTTPS; IPv6; IPv4; TCP/IP; HTTP; NTP; SSL; DHCP                                                                                      |
| Wireless Certification           | FCC; CE                                                                                                                                   |
| Security Mechanism               | IP/MAC address filtering; WAP/WPA2-PSK/WPA3-PSK;                                                                                          |
| Routing                          | Static routing                                                                                                                            |
| DHCP Server                      | Enable and disable DHCP Server<br>Configure address pool of DHCP Server<br>Configure lease period<br>Assign fixed IP addresses to clients |
| NAT                              | Port-based NAT configuration                                                                                                              |
| VPN                              | L2TP; L2TP/IPsec VPN                                                                                                                      |
| APN                              | APN private network configuration                                                                                                         |

#### Hardware

|                        |                                                     |
|------------------------|-----------------------------------------------------|
| Wireless Standard      | 3GPP Release 9@WAN<br>IEEE 802.11b/g/a/n/ac/ax@WLAN |
| Power Supply           | 9–36 VDC                                            |
| Included Power Adapter | Yes                                                 |
| Included Antenna       | Yes                                                 |

|                          |                                                                                                                                                         |
|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| Ethernet Ports           | 3                                                                                                                                                       |
| Ethernet Port Speed      | 10/100/1000 Mbps;                                                                                                                                       |
| Reset Button             | Yes;                                                                                                                                                    |
| Power Consumption        | Full load: 15 W<br>Idling: 5 W                                                                                                                          |
| WAN Port                 | 1 (0–3);                                                                                                                                                |
| WAN Port Connection Mode | Static IP address; DHCP; PPPoE; 4G/3G                                                                                                                   |
| External Port            | 3 × RJ–45 10/100/1000 Mbps (LAN/WAN switching)<br>1 × SIM card slot (nano)<br>1 × DC-JACK power supply port<br>1 × RESET button                         |
| Indicator Light          | 1 × power indicator<br>3 × cellular signal indicators<br>1 × SIM card indicator<br>1 × Wi-Fi indicator<br>3 × Ethernet port indicators                  |
| Antenna                  | Wi-Fi: 2 × standard SMA antenna ports<br>(characteristic impedance 50 Ω)<br>Cellular: 2 × standard SMA antenna ports<br>(characteristic impedance 50 Ω) |

Performance

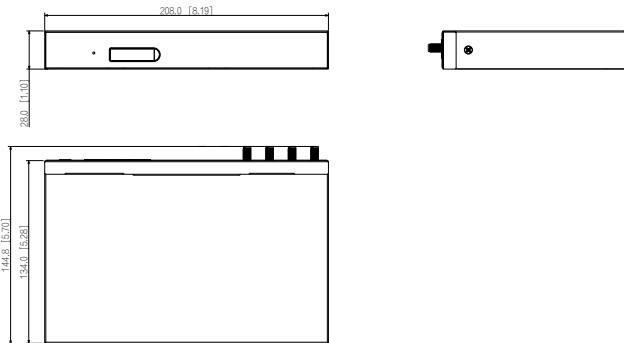
|                                 |                                                                                                                                                                                                                                                                                               |
|---------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Terminal Communication Protocol | IEEE 802.3/802.3u/802.3ab@LAN<br>IEEE 802.11b/g/a/n/ac/ax@WLAN                                                                                                                                                                                                                                |
| Operating Frequency             | Wi-Fi: 5.725–5.850GHz,2.400GHz–2.483GHz<br>Cellular:<br>Southeast Asia version(SEA): B1/B3/B5/B8/ B34/B38/<br>B39/ B40/B41;<br>Oceania and North American version(US): B1/B2/B3/<br>B4/B5/B7/B8/B12/B17/B28/B38/B40/B66;<br>European version(EU): B1/B3/B5/B7/B8/B20/B28/<br>B38/B40/ B41     |
| Antenna                         | External LTE omnidirectional antenna<br>External Wi-Fi 2.4 GHz/5 GHz dual-band<br>omnidirectional antenna                                                                                                                                                                                     |
| Antenna Gain                    | Wi-Fi-2.4 GHz: ≤1.5 dBi<br>Wi-Fi-5.8 GHz: ≤3 dBi<br>Cellular: ≤4.5 dBi                                                                                                                                                                                                                        |
| Air Interface Rate              | 2.4 GHz Wi-Fi: 574 Mbps<br>5 GHz Wi-Fi: 1201 Mbps<br>LTE FDD: 150 Mbps (DL)/50 Mbps (UL)<br>LTE TDD: 130 Mbps (DL)/30.5 Mbps (UL)<br>WCDMA: 384 Kbps (DL)/384 Kbps (UL)<br>DC-HSPA+: 42 Mbps (DL)/5.76 Mbps (UL)<br>EDGE: 296 Kbps (DL)/236.8 Kbps (UL)<br>GPRS: 107 Kbps (DL)/85.6 Kbps (UL) |
| Protection                      | IP30                                                                                                                                                                                                                                                                                          |
| Connected Wireless Terminals    | 2.4 GHz Wi-Fi: 32<br>5 GHz Wi-Fi: 64                                                                                                                                                                                                                                                          |
| Max. Output Power               | CE EIRP:<br>≤20 dBm@2400-2483.5 MHz<br>≤23 dBm@5150-5250 MHz<br>≤23 dBm@5250-5350 MHz<br>≤27 dBm@5470-5725 MHz<br>≤14 dBm@5725-5850 MHz<br>FCC output power:<br>≤27 dBm@2400-2483.5 MHz<br>≤24 dBm@5150-5250 MHz<br>≤24 dBm@5250-5350 MHz<br>≤24 dBm@5470-5725 MHz<br>≤30 dBm@5725-5850 MHz   |

General

|                       |                                      |
|-----------------------|--------------------------------------|
| Operating Temperature | –40 °C to +75 °C (–40 °F to +167 °F) |
|-----------------------|--------------------------------------|

|                      |                                                                |
|----------------------|----------------------------------------------------------------|
| Storage Temperature  | –40 °C to +85 °C (–40 °F to +185 °F)                           |
| Operating Humidity   | < 95%                                                          |
| Gross Weight         | 1.5 kg (3.31 lb)                                               |
| Net Weight           | 0.77 kg (1.70 lb)                                              |
| Product Dimensions   | 207 mm × 135 mm × 28 mm (8.15" × 5.31" × 1.10")<br>(L × W × H) |
| Packaging Dimensions | 402mm × 251mm × 84mm(15.83" × 9.88" × 3.31")<br>(L × W × H)    |
| Memory               | 256 MB                                                         |
| Statics Protection   | Air discharge: 15 kV<br>Contact discharge: 8 kV                |
| Lighting Protection  | Common mode: 4 kV<br>Differential mode: 2 kV                   |
| Installation         | Desktop/rack mount                                             |

Dimensions (mm [inch])



Panels

