

4G OUTDOOR ROUTER

Hf-R3100-4G-W6

- **5G SIM Support:** High-speed cellular connectivity for reliable internet access
- **Outdoor Router Design:** Built for stable performance in outdoor environments
- **PoE (Power over Ethernet):** Single cable for both power and data transmission
- **Long-Range Wireless Transmission:** Extended coverage for wider area connectivity
- **12V DC Power Input:** Flexible power supply option
- **IP66 Rated Enclosure:** Water and dust resistant for harsh conditions



5G Sim Support
outdoor Router



POE



Long Range
wireless transmission



12V DC



IP66

SYSTEM OVERVIEW

The Hf-R3100-4G-W6 is a compact networking device that uses a 4G LTE SIM connection to access the internet and shares it via WiFi 6 (2.4 GHz). It supports Power over Ethernet (PoE) for simple installation and includes LTE/WiFi modules with external antennas for better signal performance.

It's mainly used for rural internet access, CCTV systems, and IoT deployments where wired connectivity is... let's say, technologically inconvenient.

ABOUT HIFOCUS

HI-FOCUS is a trusted leader in surveillance and networking solutions with more than a **Decade of experience** in CCTV Industry. We deliver innovative, reliable, and high-performance security products designed to meet global quality standards. Every HI-FOCUS product is engineered with precision and rigorously tested to ensure superior performance and customer satisfaction.



Worry-Free Outdoors

Multiple installation methods • IP68 water and dust resistance for harsh conditions

- Flexible wall & pole installation
- Effortless setup and operation
- Rugged IP68 weatherproof housing
- Built for extreme outdoor conditions

- Waterproof
- Dust-proof
- Lightning Protection
- Temperature Resistance

STRONGER SIGNAL. SMARTER CONNECTIONS.

Advanced WiFi 6 Technology for Reliable, High-Speed Connectivity.

- WiFi 6 (802.11ax)
- 2.4GHz Optimized Coverage
- 1T1R Antenna Design
- 20/40MHz Adaptive Bandwidth
- OFDMA CoExist
- MU-MIMO Technology
- WPA3 Secure Encryption

- Power Save: Experience high-speed performance for all your devices.
- Wider Coverage: Optimize 2.4GHz channel for stronger, more stable connections.
- More Devices: Connect more devices simultaneously and advanced efficiency.
- Stronger Security: WPA3 encryption gives you ultimate data privacy and security.

CONNECT BEYOND LIMITS

Long-Range 4G Outdoor CPE for Extreme Environments

4G OUTDOOR CPE

- REMOTE SURVEILLANCE: Reliable connectivity for critical monitoring systems.
- SMART AGRICULTURE: IoT connectivity for precision farming and smart irrigation.
- RURAL CONNECTIVITY: Bridging the distance with stable internet access.
- INDUSTRIAL IOT: Seamless data transmission for automation and operations.

- LONG RANGE WIRELESS TRANSMISSION
- IP68 WEATHERPROOF
- HIGH-GAIN ANTENNA
- EASY INSTALLATION

POWER THAT ADAPTS. CONNECTIVITY YOU TRUST.

Dual input support ensures uninterrupted performance in any environment.

- FLEXIBLE POWER OPTIONS**
12V/1A DC & PoE supported
- STABLE PERFORMANCE**
Reliable operation for 24/7 use
- SMART CONNECTIVITY**
Seamless network integration

- INDUSTRIAL GRADE
- WIDE VOLTAGE TOLERANCE
- OVERLOAD PROTECTION
- EASY INSTALLATION

4G OUTDOOR CPE
STABLE. SECURE. EVERYWHERE.

- REMOTE SURVEILLANCE: Reliable Connectivity for Safety & Security
- RURAL CONNECTIVITY: Bridging the Distance with Last-Mile Internet
- CONSTRUCTION SITES: Stay Connected. Boost Productivity
- TRANSPORT & LOGISTICS: Real-Time Tracking for Smarter Movement
- SMART AGRICULTURE: IoT Sensors & Automation for Smarter Farming
- INDUSTRIAL WAREHOUSE: Seamless Connectivity for Automation & Logistics
- PUBLIC WI-FI ZONE: Fast & Reliable Internet for Everyone

Extreme Temperature Reliability

Operating Temperature: **0°C - 55°C**

Engineered for Reliability

ADVANCED HARDWARE ARCHITECTURE

Integrates an external SIM interface, optimized external antennas (4G 1x1, WiFi 1x1), a responsive reset button, and sophisticated LED indicators for clear, intuitive network status visibility.

- EXTERNAL SIM INTERFACE**
Easy access SIM slot for flexible connectivity.
- RESET BUTTON**
Discreet and responsive reset button for quick recovery and convenience.
- INTELLIGENT LED INDICATORS**
Real-time status monitoring for LAN, 4G, and WiFi connectivity at a glance.

- PREMIUM BUILD QUALITY: Engineered for durability and long-term performance.
- ALL-WEATHER DESIGN: Built to perform in harsh outdoor environments.
- EASY DEPLOYMENT: Simplified installation with user-friendly hardware.
- RELIABLE CONNECTIVITY: Optimized hardware for uninterrupted performance.



CORE FEATURES

SPECIFICATIONS

Product Over view	4G LTE Cat4 + WiFi 6 (2.4GHz) CPE with PoE support for broadband and CCTV deployments.
System Architecture	ASR1803S LTE platform with AIC8800DW WiFi 6 chipset (2.4GHz, 1T1R).
Cellular Specifications	LTE Cat4 DL 150 Mbps / UL 50 Mbps. WCDMA DL 21.6 Mbps / UL 5.76 Mbps.
WiFi Specifications	802.11 ax/b/g/n, 2.4GHz, 1T1R, 20/40MHz bandwidth, OFDMA, MU-MIMO, WPA3 support.
Hardware	External SIM, External antennas (4G 1x1, WiFi 1x1), Reset button, LED indicators (LAN/4G/WiF
Power	12V/1A DC or PoE input.
Environment	Operating temperature: 0°C to 55°C.
Applications	FWA, rural broadband, CCTV connectivity, IoT gateway

