

Proroute H820 WRT 4G Industrial router

Secure Industrial Cellular and WiFi Connectivity for IoT Applications



Description

The H820 is the ideal M2M router to connect your devices enabling to the Internet of Things (IoT). Secure connectivity of your devices has never been so important in today's industrial world.

The Proroute H820 is a fast, secure and reliable cellular router for industrial applications. Owing to its small form factor, feature set and tough construction you will have consistent connectivity to mission-critical assets.

Mobile data communications using embedded routers is fast becoming an essential tool for business critical field based communications. The H820 is designed to stay online and connected.

Applications

- Digital Signage
- Secure remote access to equipment
- Utility metering
- Renewable energy
- ATM systems
- CCTV Video Surveillance
- Pipeline management
- IoT Deployments
- Smart grid networking
- Secure Peer to Peer networks
- Irrigation monitoring and control

Features

- 4G Connectivity
- Compact design for easy integration into machines or electrical cabinets
- SMS to control router online/offline, reboot, status, IO alarm, WiFi state
- Automatic fallback to 3G/2G networks
- LAN/WAN Fallback for redundant networks
- WiFi for remote hotspot and mobile applications
- IPSec & OpenVPN Client & Server, L2TP, PPTP
- GRE, Port Forward, DMZ
- 5 x 100Mbps LAN / WAN Ports
- Antenna diversity for Cellular bands
- 5-40VDC input range with wide operating temperature

H820 4G/LTE Cellular WiFi modem and router

Specifications

Specifications subject to change.

Specification	Description
Cellular - Radio	
Model	H820 4G
Modem options	4G LTE CAT4 - Downlink 150Mbps / 50 Mbps Uplink
4G Bands	All UK 4G bands available.
4G LTE	800/900/1800/2100/2600Mhz
HSPA+	850/1900/2100Mhz
GSM/EDGE	850/900/1800/1900Mhz
WiFi	802.11b/g/n; 300Mbps RF Power; 20dBm 100mW Access Point/ Client / WDS
Networking	
VPN	IPSec, L2TP, PPTP Server and Client Supported
Protocols Supported	TCP, UDP, SMTP, POP, ICMP, FTP, PPP, PPPoE, DHCP, DDNS, DNS, SNMP, WPS, DMZ, Syslog (local and remote), NAT, xDSL, NTP, QoS, SNMP, Dynamic routing (OSPF, OSPF6, RIP, RIPng, BGP)
Security	64/128 bits WEP, 802.1x, WPA and WPA2 TKIP, AES encryption WPA1/2- 802.1x EAP- TLS, TTLS, LEAP, PEAP Username and password Access control base WAN/LAN Access control base source IP PAP-CHAP / IP filtering /Radius Client
VLAN	ID Tagging supported
Fail over redundancy	Auto-dial feature, keep alive link Cellular (2G/3G/4G), RJ45 WAN (xDSL, DHCP, Fixed IP), WiFi client
SMS	SMS call to control router to be online, offline, reboot, status info, alarm, IO, WiFi on, WiFi off

Specification	Description
Interfaces	
LAN	5 x 10/100M RJ45
Antenna	1 x WiFi SMA 2 x Cellular SMA
LED	SYS, VPN, SIGNAL, CELL, WAN, LAN, WiFi
Power	
Input Power Consumption	5-40VDC Idle 15mA@12VDC Max 250mA@12VDC
Power Connection	2.5mm DC Jack or Terminal block
Physical	
Operating Temperature	-40 to +85deg Celsius -40 to +185deg Fahrenheit
Humidity	95% non condensating
Weight	500grams
Dimensions	170mm x 105mm x 25mm
Warranty	12 months
Mounting	Panel mount (optional for DIN rail mount)
Sim Card	Standard SIM

Compliance	
Regulatory	UKCA, CE, RoHS



sales@proroute.co.uk
www.proroute.co.uk

© 2026 Proroute Ltd
All Rights Reserved.
Proroute is a registered trademark.
All other trademarks are property of their respective owners.