ALLNET ALL-RUT22GW Compact Industrial 4G LTE Cellular Router

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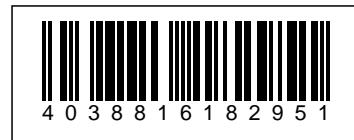
Highlights:

- 1 x 10/100 Base-TX RJ45 LAN port; 1 x 10/100 Base-TX RJ45 WAN port.
- Multi-band support for FDD LTE / TDD LTE / WCDMA / GSM / LTE Cat4.
- Compatibility with IEEE 802.11b/g/n Wi-Fi standards.
- Built-in micro-SIM port, serial port (RS-232 or RS-485) and DI/DO interfaces.
- Ultra-compact and lightweight metal design with DIN rail mounting.
- LED indicators for connection and data transmission status.
- Industrial grade from -30 to +70°C for use in harsh environments.
- Flexible power supply range from 8-48 VDC (max. 7W).
- IPv4 and IPv6 dual stack management.
- VPN tunnel, firewall and cryptographic protocols for cyber security.
- Support of serial communication protocols for M2M connectivity.

****No power supply unit included in delivery**** see accessories

The ALLNET ALL-RUT22GW is a compact, lightweight and cost-effective 4G LTE cellular router for use in extended temperature industrial environments. The ALL-RUT22GW router is equipped with two Ethernet network ports and utilizes 2G, 3G and 4G cellular networks for wired and wireless communications in industrial environments. Equipped with an RS232 serial port and digital input/output interfaces, the router is easy to configure and captures real-time data transmissions for industrial IoT and machine-to-machine applications extremely quickly.

With VPN tunnel, firewall, TR069 and SNMP trap, the ALL-RUT22GW supports highly secure authentication, encryption and management of your data between public and private networks. The router can be used flexibly in

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a temperature range of -30 to about +70°C and a flexible input voltage range of 8 to 48V in different environments and applications.

The ALL-RUT22GW industrial router is the perfect choice for simplifying complex solutions and allows you to customize your services for industrial networks and smart city applications.

Technical Details:

Technical Details:

Cellular Interface	Software

Cellular Interface

- Standards: (Please see ordering information for optional band)

  - 4G: FDD LTE, TDD LTE
  - 3G: WCDMA
  - 2G: GSM/EDGE

Bands	4G		3G	2G	REGION
	FDD LTE	TDD LTE	WCDMA	GSM / EDGE	
EU	B1(2100), B3(1800), B5(850), B7(2600), B8(900), B20(800)	B38(2600), B40(2300), B41(2500)	B1(2100), B5(850), B8(900)	B3(1800), B8(900)	Europe Africa Middle East Korea Thailand India

- LTE Data Rate: CAT 4, 150Mbps (DL), 50Mbps (UL)

Hardware Interface

- High Performance 550 MHz SoC with 128MByte Flash
- 1 x Micro SIM Connector (push-push type)
- 1 x LAN 10/100 Mbps Ethernet port
- 1 x WAN 10/100 Mbps Ethernet port
- WPS / RESET Button
- 1 x RS-232 (TXD/RXD/GND)

Software

- **Network Protocols:**

IPv4, IPv6, IPv4/IPv6 dual stack, DHCP server and client, PPPoE, Static IP, SNTP, GPS sync time, DNS Proxy,

VRRP, OSPF, Message Queue Telemetry Transport

(MQTT Broker), BGP, Flow (Modbus master ? MQTT client)

- **Routing/Firewall:**

NAT, Virtual Server, DMZ, MAC Filter, URL Filter, IP Filter, VLAN, Static Routing and RIP-1/2, IPS, Policy Route

- **VPN:**

OpenVPN, IPSec (3DES, AES128, AES196, AES256, MD5, SHA-1, SHA256), GRE, PPTP, L2TP

- **Wireless Connectivity:**

WAN Wi-Fi Client

- **Others:**

DDNS, QoS, UPnP, SMS Action, GPS Track Drawing, GPS TCP Push

- **Alarm:**

DI, DO, SMS, VPN/WAN Disconnect, SNMP Trap, E-mail, TR069

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- 1 x RS-485 (D+/D-/GND) (M330-W5 Model)
- 1 x DI (Non-Isolated), 1 x DO (Non-Isolated)
- 2 x SMA connectors for detachable LTE Antenna
- 2 x RP-SMA connectors for detachable Wi-Fi Antenna
- 1 x SMA connector for detachable GPS antenna

Wi-Fi Interface

- Compliant with IEEE 802.11 b/g/n Wi-Fi standards
- 2.4 GHz radio band for wireless
- 2T2R 300 Mbps wireless operation rate
- Wireless security with WPA2-PSK(AES)
- Multiple SSIDs
- Wireless MAC Filtering
- Wireless client isolation

Physical Characteristics

- Enclosure:Metal Case
- Dimensions (W x H x D):91 x 28 x 74 mm
- Weight:250 g (0.5512 lb)
- Installation:DIN-rail / Wall mounting

LED Display

- 1 x Power LED
- 1 x Ethernet LED for each port (LAN/WAN)
- 1 x RSSI LTE LED
- 1 x Function LED (User define by Web)

Power Supply

- Power Consumption 7 Watts(Max)
- Power Input 8 ~ 48 VDC

Management Software

- Web GUI for remote and local management, CLI
- Syslog monitor
- SNMP, TR069
- FOTA (Firmware over the Air)
- Remote management via SSH v2, HTTPS
- Local management via Telnet, SSH v2, HTTP/HTTPS

Environment

- Operating Temperature   -30 ~ +70°C
- Storage Temperature   -40 ~ +85°C
- Ambient Relative Humidity 10 ~ 95% (non-condensing)
- Humidity   0 ~ 95% (non-condensing)

Standards and Certifications

- **EMC**:CE, FCC
- **EMI**:EN 301489 , FCC Part 15B Class B
- **EMS**:EN 301489
- **Vibration**:IEC60068-2-6
- **Radio :** EN 301511, EN 301908-1, EN 301908-2, EN 301908-13, EN 300328, EN 303413, EN 62311

Accessories

Part No.	Name
210304	ALLNET Ersatznetzteil 12V/5A EU Type schwarz mit Adapter EU,US,UK
139521	Mean Well power supply - 12V 75W DIN rail
166188	Synergy 21 Netzteil - 12V 60W Mean Well Hutschiene / HDR-Serie

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Part No.	Name
136774	ALLNET GSM antenna 5dbi magnetic omnidirectional antenna
149037	ALLNET ALL19103 / GSM Antenna 4dbi MIMO Flatpatch LTE Antenn
181030	Poynting · Antennen · 5G/LTE · Mast/Wand · A-XPOL-0002-V3-01 · weiß · SMA (M) · LoRa Helium · 11dbi Flat-MIMO · SMA · 5 Meter Kabel
189096	Poynting · Antennen · 5G/LTE · Mast/Wand/Fenster · A-XPOL-0001-V2-21 · SMA (M) · 3dbi 2x2 MIMO Cross Polarised Omnidirectional · SMA - Male · 2 x 5 Me

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