



# M3G900

3G router

*Reliable, fast and secure 3G router for professional applications.*

- ✓ Wireless AP, 4 port router with DHCP server and firewall in a single device
- ✓ 3G, GSM/GPRS/EDGE and WiFi
- ✓ Dual SIM card slots
- ✓ Dynamic DNS
- ✓ Durable aluminum housing with LED signal strength indicators and optional connection of four external antennas

M3G900 is a router for use between TCP/IP connected controllers and a wireless, mobile 3G/GPRS network. Controllers connected through a mobile 3G network offer a highly flexible solution and using this router requires no previous building network installations.

The router can be used for communication between several controllers and EXOscada/CLOUDigo. It is also possible to connect a computer to service the controllers from a remote location.

## Network and configuration

The router is not locked to any specific network provider. Since data usage can vary between applications, it is recommended to select a network provider that offers SIM cards with a fixed rate or sufficient data traffic.

When starting up, configuration is made using a user friendly and simple internal web page. The web page also makes it easy to keep track of overall data traffic.

## WiFi

The router has WiFi functionality, further extending options for connectivity. It is, however, recommended to turn off the WiFi during operation or protect the network with a strong and secure password in order to limit data usage.

## Remote connection

The router uses software which makes it easy to find over the Internet. The software makes simple to locate the connected units in the application and to connect to them.

## Dual SIM cards

The router features two SIM card slots. It can switch between these cards at a predetermined data limit, a certain signal strength or when using roaming across country borders.

## Automatic reboot

The router will reboot automatically if losing contact with the network. The router can also be rebooted via SMS.

## Technical data

|                              |                                                                                                                                                                                                                                                                                                                                                                          |
|------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Connections</b>           | RJ45 (3 LAN, 1 WAN), WiFi                                                                                                                                                                                                                                                                                                                                                |
| <b>Communication</b>         | TCP/IP                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Mobile network</b>        | UMTS 850/900/AWS1700/1900/2100 MHz<br>HSDPA mode: 21 Mbps (Cat 14) download speed<br>HSUPA mode: 5.76 Mbps (Cat 6) upload speed<br>GSM/GPRS/EDGE 850/900/1800/1900 MHz<br>GSM: 14.4 kbps download speed, 14.4 kbps upload speed<br>GPRS: 107 kbps download speed, 85.6 kbps upload speed (Class 33)<br>EDGE: 296 kbps download speed, 236.8 kbps upload speed (Class 33) |
| <b>Ethernet</b>              | IEEE 802.3, IEEE 802.3u standards<br>3 LAN 10/100 Mbps Ethernet ports<br>1 WAN 10/100 Mbps Ethernet port                                                                                                                                                                                                                                                                 |
| <b>WiFi</b>                  | IEEE 802.11 b/g/n WiFi standards                                                                                                                                                                                                                                                                                                                                         |
| <b>SIM card slots</b>        | 2                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Software</b>              | Open VPN, IPsec, GRE, L2TP, PPTP<br>Dynamic DNS<br>SIM-card switch controlled by signal, data limit, roaming<br>Firmware update from bootloader via WebUI                                                                                                                                                                                                                |
| <b>Power Supply</b>          | 9 - 30 V DC. Wall adapter included.                                                                                                                                                                                                                                                                                                                                      |
| <b>Power consumption</b>     | <7 W                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Operating temperature</b> | -40 °C ... +75 °C                                                                                                                                                                                                                                                                                                                                                        |
| <b>Storage temperature</b>   | -45 °C ... +80 °C                                                                                                                                                                                                                                                                                                                                                        |
| <b>Operation humidity</b>    | 10 % ... 90 % non-condensing                                                                                                                                                                                                                                                                                                                                             |
| <b>Storage humidity</b>      | 5 % ... 95 % non-condensing                                                                                                                                                                                                                                                                                                                                              |
| <b>Dimensions (HxWxD)</b>    | 80 mm x 106 mm x 46 mm                                                                                                                                                                                                                                                                                                                                                   |
| <b>Weight</b>                | 250 g                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Housing</b>               | Aluminium                                                                                                                                                                                                                                                                                                                                                                |

## CE

**Low Voltage Directive (LVD) standards:** This product conforms to the requirements of the European Low Voltage Directive (LVD) 2014/35/EU through product standards LST EN 60950-1:2006, LST EN 60950-1:2006/A11:2009, LST EN 60950-1:2006/A1:2010, LST EN 60950-1:2006/A12:2011 and LST EN 60950-1:2006/A2:2013.

**EMC emissions & immunity standards:** This product conforms to the requirements of the EMC Directive 2014/30/EU through product standards EN 301 489-1 v1.9.2, EN 301 489-1 v1.4.1, EN 301 489-1 v1.3.1, EN 301 489-1 v2.2.1 and EN 301 489-1 v1.5.1

**Efficient use of the radio frequency spectrum:** This product conforms to the requirements of the Efficient use of the radio frequency spectrum, Article 3.2 of 1999/5/EU through product standards EN 301 511 v9.0.2, EN 301 908-1 v6.2.1, EN 301 908-2 v6.2.1, EN 301908-13 v6.2.1, EN 300 440-1 v1.6.1, EN 300 440-2 v1.4.1 and EN 300 328 v1.8.1

**Radio frequency & human exposure:** EN 50383:2010, EN 50385:2002 and EN 62311:2008

**RoHS:** This product conforms to the Directive 2011/65/EU of the European Parliament and of the Council through EN 50581:2012.

## Accessories

| Article | Description                                      |
|---------|--------------------------------------------------|
| MXGDIN  | Kit for mounting M3G900 and M4G950 on a DIN rail |

## Product documentation

| Document      | Type                                                          |
|---------------|---------------------------------------------------------------|
| Instruction   | Instruction for installation and quick start of M3G900/M4G950 |
| Manual M3G900 | Manual with complete information about M3G900                 |

The product documentation can be downloaded from [www.regincontrols.com](http://www.regincontrols.com).