

# Desktop MLR 2G/3G

| Shape            | Transmission technology             |                                     |                          |                          |                          |                          |                          |
|------------------|-------------------------------------|-------------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
|                  | 3G/HSPA                             | GSM/GPRS/EDGE                       | xDSL                     | Ethernet                 | WLAN                     | Analogue                 | ISDN                     |
| DIN-rail serial  | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| DIN-rail network | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Desktop          | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 19" rack         | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Embedded module  | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |



## Mobile access to Ethernet devices

The mobile LAN router MLR provides network access where ever required.

Up to 4 network devices connect directly to MLR for remote maintenance, data transfer, and firmware updates.

MLR are high speed routers with integrated GPRS or UMTS connectivity.

With the integrated Linux Sandbox user can implement their own applications such as data logger or protocol conversion.

## Features

- Mobile network router
- GSM/GPRS/EDGE, 3G/HSPA
- 4 LAN ports
- User programmable Linux system
- Options
  - Mounting set for DIN rail
  - Integrated GPS receiver

## Applications

- Remote maintenance
- Video surveillance
- Public displays
- Vending machines
- Own applications e.g. data logger, protocol converter, web server



## Technical data

### MLR 2G/3G

|                             | MLR 2G  | MLR 3G                        |
|-----------------------------|---|-------------------------------|
| <b>Mobile communication</b> |   |                               |
| Networks                    | GSM   | GSM/UMTS                      |
| IP services                 | GPRS Class 12   | GPRS/EDGE Class 12, UMTS/HSPA |
| Frequencies                 | Quadband  | 2G-Quadband, 3G-Fiveband      |
| Antenna                     | SMA connection  |                               |
| SIM                         | 2 Slots for redundant SIM cards   |                               |
| <b>Router</b>               |   |                               |
| Function                    | Dial-in, dial-out, callback, connection management, Full NAT (port forwarding, net mapping), DNS Relay, dynDNS Support                                    |                               |
| Security                    | VPN client and server (openVPN, IPsec, PPTP), firewall, dial-in authentication, dial-out filter   |                               |
| <b>Switch</b>               |   |                               |
| Ports                       | 4 x RJ45, 10/100 MBit/s for full and half duplex operation  |                               |
| Functions                   | Automatic recognition of patch/crossover cables; automatic speed adjustment; MDI/MDI-X, port mirroring, VLAN  |                               |
| <b>Configuration</b>        | Web interface local and remote, automatic updates, import/export as a text or binary file   |                               |
| <b>Programming</b>          | Embedded Linux (Sandbox), 100+50 MB file system, IP connection, RS232 access, demo files available free of charge   |                               |
| <b>Messages</b>             | System messages via e-mail, SMS and SNMP trap   |                               |
| <b>Additional features</b>  | Firmware update and configuration local/remote, serial-Ethernet-Gateway, hardware watchdog, redundancy over external modem, 4 status LEDs, SNMP V1/V2c/V3 |                               |
| <b>Electrical features</b>  |   |                               |
| Power supply                | 12...24 V DC  |                               |
| Connection                  | Detachable screw terminal   |                               |
| Power consumption           | appr. 5 W (during connection)   |                               |
| <b>Physical features</b>    |   |                               |
| Size in mm                  | 33 l x 155 w x 120 h  |                               |
| Temperature range           | -20...+55°C   |                               |
| Humidity                    | 0...95% (non condensing)  |                               |
| Weight                      | 300 g   |                               |

| Product description | Features                           | Order number    |
|---------------------|------------------------------------|-----------------|
| MLR 2G 2.0          | GSM/CSD, GPRS                      | 11-02-06-09-01. |
| MLR 3G 2.0          | GSM/CSD, GPRS/EDGE, UMTS/HSPA      | 11-02-06-09-02. |
| MLR 3G 2.0G         | GSM/CSD, GPRS/EDGE, UMTS/HSPA, GPS |                 |

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