# Netbiter EC

## REMOTE COMMUNICATION GATEWAYS

## Highlights

- Netbiter gateways connect to field equipment in order to send data to the Netbiter Argos™ data service.

- Data is sent securely via the cellular network or via Ethernet.

- No need for public and fixed IP addresses, VPN tunnels and expensive M2M-specific SIM cards.

## Typical Applications

- Power generators
- Telecom base stations
- Building HVAC systems
- Industrial machinery
- Tank monitoring
- Pump stations
- Renewable energy
- Security and geofencing

### Realize the Industrial Internet of Things in minutes
No matter where your field equipment is located, just connect it to a Netbiter gateway and you will be able to access it online in a regular web browser. The plug-and-play functionality makes it possible to perform large-scale installations within minutes.

### Connectivity to the device/machine
Netbiter EC300-series gateways connect to field equipment via several connection methods: Serial RS-232/485 Modbus RTU, Modbus-TCP or EtherNet/IP. On-board I/O ports allow sensors and additional equipment to be connected.

### Two communication methods: Ethernet and cellular
Netbiter EC comes in two versions: EC310 sends data via Ethernet only, while EC350 can use both Ethernet and cellular communication (3G/GSM/GPRS).

### Cloud services through Netbiter Argos™
The gateways interface with the cloud-based Netbiter Argos service via the cellular network or Ethernet. By logging into www.netbiter.net, you can access and visualize equipment data online and get alarms via email or SMS whenever certain thresholds are reached.

### Configure and operate machinery remotely
The powerful feature Netbiter Remote Access allows you to open up a secure connection to remote machinery and program it remotely. For example, with a Netbiter gateway connected to your PLC, you can do debugging or re-programming remotely from your PC, using your regular configuration software.

# www.netbiter.com

## TECHNICAL SPECIFICATIONS

| | Netbiter EC310 | Netbiter EC350 |
|---|---|---|
| Name | Netbiter EC310 | Netbiter EC350 |
| Connection to Argos | Ethernet only | Ethernet and 3G/GSM/GPRS |
| Order code | NB1007-C | NB1005-C |
| Ethernet | 10/100 Mbit/s | 10/100 Mbit/s |
| 3G/GSM/GPRS | - | 3G: Five Band UMTS/HSPA+ (WCDMA/FDD) (850/800, 900, 1900 and 2100 MHz) GPRS: Quad-Band GPRS Class 12 (850/900/1800/1900 MHz)- |
| Antenna connector | - | SMA female |
| Relay output (max 24 V, AC/DC, 1A) | 1 | 1 |
| Digital inputs | 2 (Dry contact) | 2 (Dry contact) |
| Analog inputs (PT100, 0-10 V or 0-20 mA) | 4, all supporting 0-10 V or 0-20 mA and 2 supporting PT100 | 4, all supporting 0-10 V or 0-20 mA and 2 supporting PT100 |
| Analog output (0-10 V) | - | - |
| Serial port #1 | RS-232, 1,2 kbit/s to 115,2 kbit/s | RS-232, 1,2 kbit/s to 115,2 kbit/s |
| Serial port #2 | RS-485, 1,2 kbit/s to 115,2 kbit/s | RS-485, 1,2 kbit/s to 115,2 kbit/s |
| GPS | - | Built-in (antenna** via SMA female) |
| Protocols | Modbus-RTU, Modbus TCP, EtherNet/IP, J1939 | Modbus-RTU, Modbus TCP, EtherNet/IP, J1939 |
| Modbus RTU to TCP conversion | YES | YES |
| Proxy support | SOCKS/WEB | SOCKS/WEB |
| Wall mounting / DIN rail* | YES/YES | YES/YES |
| Mechanical dimensions (L•W•H) | 92 x 135 x 27 mm | 92 x 135 x 27 mm |
| Operating temperature | -40 to +65 °C | -40 to +65 °C |
| Power supply | 9-32 VDC | 9-32 VDC |
| Power consumption (max at 24 Vdc) | 2.5 W | 4.5 W |
| Model name for certifications | NB301B | NB301A |
| Certifications | CE, CULUS, RCM | CE, CULUS, JATE, Telec, RCM, FCC, IC, PTCRB |
| Housing | Metal | Metal |
| Remote access functionality | YES | YES |

*with DIN rail mounting kit **not included

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