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NETBITER - EC COMMUNICATION GATEWAY

NB1007
EC310 (Ethernet), Metal Housing, 9-32V dc



- 4G/Ethernet/3G/GPRS Gateway options available
- MODBUS-RTU/TCP, Ethernet/IP
- 12-48V DC Control voltage

PRODUCT DESCRIPTION

Netbiter Gateway

The Netbiter® communication gateway is the hardware part of the Netbiter Remote Management solution. The gateway connects to your field equipment via several connection methods: Serial RS-232/485, Modbus RTU, Modbus-TCP or EtherNet/IP.

In addition, on-board I/O ports provides the option to connect sensors and additional equipment to the system.

Sending your data to the cloud

Once connected, the gateway automatically exchanges data over Ethernet to the cloud-based Netbiter Argos data center. Wherever your field equipment is located, you will be able to access equipment online by logging in to Netbiter Argos at www.netbiter.net using your regular web browser.

4G/3G and Ethernet versions available

The Netbiter is available in various connectivity options to suit your needs

Fast & Easy deployment

Once your equipment and peripherals are connected, your initial configuration is saved within Netbiter Argos. This then makes it possible to deploy large-scale installations within minutes, by simply deploying the configuration to other Netbiter gateways.

Keeping your data safe

Netbiter offers unique technology for secure access to your industrial equipment located behind firewalls. The gateway communicates via Ethernet and eliminates the need for public, fixed IP addresses and complex VPN tunnels.

Features & Benefits

- Connects to field equipment and exchanges data securely to the Netbiter Argos™ data center
- Eliminates the need for fixed or public IP addresses and VPN tunnels
- Designed for global use with additional support for 5 different 3G bands
- 4G and ethernet versions available
- Two fully separated Ethernet Interfaces (WAN and LAN) makes it possible to provide secure communication to the field installation
- Device connectivity via Ethernet LAN or Serial RS232 and RS485
- Built-in GPS receiver makes it suitable for mobile fleet management applications
- Extendable with on-board analog and digital I/Os allows signals and sensors to be directly connected to the Netbiter gateway
- Transparent Modbus RTU to TCP gateway functionality
- Six status LEDs for detailed diagnostics
- Remote Access Mode for Machine/PLC configuration and troubleshooting

Connect & use a Netbiter with Argos service
The Netbiter Argos Services, "View and Control" and "Manage and Analyze" are bundled features within Netbiter Argos that are enabled once you have connected your equipment.
The "View and Control" service is included with the purchase of the gateway. For larger installations, or for users who wish to implement the Netbiter API into

your own systems, the subscription based "Manage and Analyze" can be selected.

Connect
With View and Control you can use the Netbiter gateway for ONE user to connect to ONE site. The gateway automatically exchanges data via Ethernet or the cellular network to the Netbiter Argos data center.

View and control
By logging on to the Netbiter Argos data center at www.netbiter.net, you are presented with a host of "cloud management services" such as Dashboards, Alarm management, Data trends and reports, that enable you to remotely monitor and control (start/stop) your equipment in a fast, efficient and secure way.

Connect to any application
The Netbiter EC310 connects to leading vendors equipment for Power Generators, UPS systems, Telecom base stations, Tank and Waser/waster water monitoring equipment, Building and HVAC systems, Industrial automation equipment and much more.

Connect
With Manage and Analyze you can use the Netbiter gateway with Multiple users and with Multiple sites. The gateway automatically exchanges data via Ethernet to the Netbiter Argos data center.

Manage and analyze
By logging on to the Netbiter Argos data center at www.netbiter.net, you are presented with a host of "cloud management services" such as Dashboards, Alarm management, Data trends and Reports, that enable you to remotely monitor and control (start/stop) your equipment. In addition, it also enables you to administrate users, fast deploy multiple sites, and even integrate the Netbiter (REST) API to your own systems and connect to 3rd party clouds such as ThingsWorx®.

Remote management and remote access
The time and cost savings with remote monitoring and controlling your connected equipment would be negated if you still needed to travel to the site and program, debug or configure the system Controller.

This can easily be solved by simply toggling between Remote Management and Remote Access mode within Netbiter Argos. Enabling Remote Access mode establishes a secure communication tunnel to the serial and Ethernet ports on a Netbiter EC310 gateway and the Controller.
This makes it possible to use PC-based software applications (such as Studio5000, RSLogix, Step7, TIA Portal, Unity PRO, GX Developer and more) to program, configure or debug any machine or industrial PLC, just as if being on site.

TECHNICAL DATA

TECHNICAL DATA

Height	92 mm
Width	135 mm

3G/GSM/GPRS	N/A
Protocol	Modbus-RTU, Modbus TCP, EtherNet/IP, J1939
Proxy support	SOCKS/WEB
Relay output	1 x 24V ac/dc, 1A
Remote access	Yes
Serial port 1	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
Voltage dc max	32 V
Voltage dc min	9 V
Power consumption	2.5 W
Temperature operational min	-40 °C
Temperature operational max	65 °C
Analogue inputs	4, all selectable 0-10 V or 0-20 mA and 2 selectable as PT100

Approvals	CE, cULus, RCM
Communication to www.netbiter.net	Ethernet
Connection antenna	N/A
Depth	27 mm
Digital inputs	2
GPS	N/A



