



## EasyConnect™ gateways

Netbiter EasyConnect is a series of communication gateways that connect to field equipment and enable direct connection to the Netbiter Argos™ data center.

Data is sent securely via the mobile phone network (3G or GSM/GPRS) or via Ethernet.



### Commonly used for:

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

### Fast and easy deployment

Wherever your field equipment is located, just connect it to an EasyConnect gateway and you will be able to access equipment data directly through the Netbiter Argos data center. The plug-and-play functionality makes it possible to perform large-scale installations within minutes.

### Connectivity

EasyConnect gateways connect to field equipment via several connection methods: Serial RS-232/485 Modbus RTU, Modbus-TCP, SNMP or EtherNet/IP. On-board I/O ports extend the EasyConnect gateways by allowing sensors and additional equipment to be added to the system.

### Configure and operate machinery remotely

The powerful feature "Remote Access" allows you to open up a secure connection to remote machinery and configure or operate it from any location. For example, with a Netbiter connected to your PLC, you are able to perform debugging or re-programming remotely from your PC, using your regular configuration software.

### Netbiter Argos™ data center

EasyConnect gateways interface directly with the Netbiter Argos data center. Here, you can access and visualize equipment data in a regular web browser and get alarms via email or SMS whenever certain thresholds are reached.





### Data security

Netbiter EasyConnect gateways offer unique technology for secure access to your industrial equipment located behind firewalls. The gateways communicate via 3G/GSM/GPRS or Ethernet and eliminate the need for public and fixed IP addresses, VPN tunnels and expensive M2M-specific SIM cards.

### Netbiter SIM-cards

For EasyConnect gateways that use cellular technology, HMS offers a SIM card with roaming capabilities for most countries around the world.



TECHNICAL SPECIFICATIONS				
Description	EC350	EC250	EC220	EC150 + EC150-M
Order code	NB1005	NB1003	NB1000	NB1001 Plastic Housing NB1002 Metal Housing
Ethernet	10/100 Mbit/s	10/100 Mbit/s + failover mode	-	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)	Quad band GPRS Class 12 850/900/1800/1900 MHz	Quad band GPRS Class 12 850/900/1800/1900 MHz	-
Relay output (max 24 V, AC/DC, 1A)	1	-	1	-
Digital inputs	2 (Dry contact)	2 (Isolated, max 24 V DC)	2 (Isolated, max 24 V DC)	2 (Isolated, max 24 V DC)
Analog inputs (PT100, 0-10 V or 0-20 mA)	4	-	2	-
Analog output (0-10 V)	-	-	1	-
Serial port #1	RS-232 up to 115,2 kbit/s	RS-232 up to 115,2 kbit/s	RS-232 up to 115,2 kbit/s	RS-232 up to 115,2 kbit/s
Serial port #2	RS-485 up to 115,2 kbit/s	RS-485 up to 115,2 kbit/s	RS-485 up to 115,2 kbit/s (isolated)	RS-232/RS-485 up to 115,2 kbit/s (isolated)
GPS	Built-in (antenna via SMA female)	External GPS via RS 232	External GPS via RS 232	External GPS via RS 232
Antenna connector	SMA female	SMA female	SMA female	-
Protocols	Modbus-RTU, ASCII, SNMP, Modbus TCP, EtherNet/IP	Modbus-RTU, ASCII, SNMP, Modbus TCP	Modbus-RTU	Modbus-RTU, ASCII, SNMP, Modbus TCP
Wall mounting / DIN rail	YES/YES	NO / YES	YES / YES	NO/YES YES/YES
Mechanical dimensions	92x135x25	90 x 70 x 58 mm	92 x 115 x 25 mm	90 x 70 x 58 mm (plastic) 92 x 115 x 25 mm (metal)
Operating temperature	-40 to +65 °C	-30 to +65 °C	-30 to +65 °C	-40 to +65 °C (plastic) -40 to +75 °C (metal)
Power supply	12-48 VDC	9-24 V DC	9-24 V DC	9-24 V DC
Power consumption (max at 24 Vdc)	4.5 W	3 W	2 W	2 W
Certifications	CE, cUL <sub>US</sub> , FCC, IC, PTCRB, Telec, RCM (ATEX/Haz.Loc pending)	CE, cUL <sub>US</sub> , (FCC/IC, PTCRB pending)	CE, cUL <sub>US</sub> , FCC/IC, PTCRB	CE
Housing	Metal or plastic	Plastic	Metal	EC150=plastic / EC150-M=Metal
Remote access functionality	YES	-	-	-

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