

# WE500

## The universal gateway for IIoT (Industrial Internet of Things)

**The complete and professional solution for the remote access, control and monitoring of unattended machines and devices.**

### USABILITY AND PERFORMANCE

Thanks to the intuitive interface, WE500 can be easily programmed also by non-specialist users. Inside WE500 interface it's possible to select the parameters to be sampled, to set thresholds for triggering alarms, notifications or activations, or to configure an automated operating logic based on event/action or on mathematical formulas.

### SECURITY AND RELIABILITY

WE500 is always available on-line with the utmost reliability. Encrypted protocols and VPN grant the highest security standards in the communication and data management.

### INTEGRATED CONNECTIVITY

WE500 is always connected and available on-line through its several communication channels: an integrated Modem 2G, 3G, 4G; LAN and WI-FI; Modbus RTU on serial interface RS232/485.

### DATA AVAILABILITY AND MANAGEMENT

The collected data can be displayed in real time on WE500 web-interface or in the Cloud, using multitrace graphs, tabs or synoptics. The parameters are locally stored in the integrated datalogger and optionally delivered to the central monitoring platform on Nethix Cloud, or on third party clouds.

**WE500 collects and logs parameters, data and values from remote unattended sites; it remotely controls the status and the functioning of machines and plants.**

**WE500 is always online thanks to consolidated connection strategies, that grant the access to the data in even the most extreme conditions.**



**Remote and automated management of machines**



**Data collection and management for a complete monitoring**



**Connectivity and communication with the highest security and reliability**



**Complete ecosystem Web Server, Cloud, VPN and Apps for a 360° management**



# WE500

## SYSTEM CHARACTERISTICS

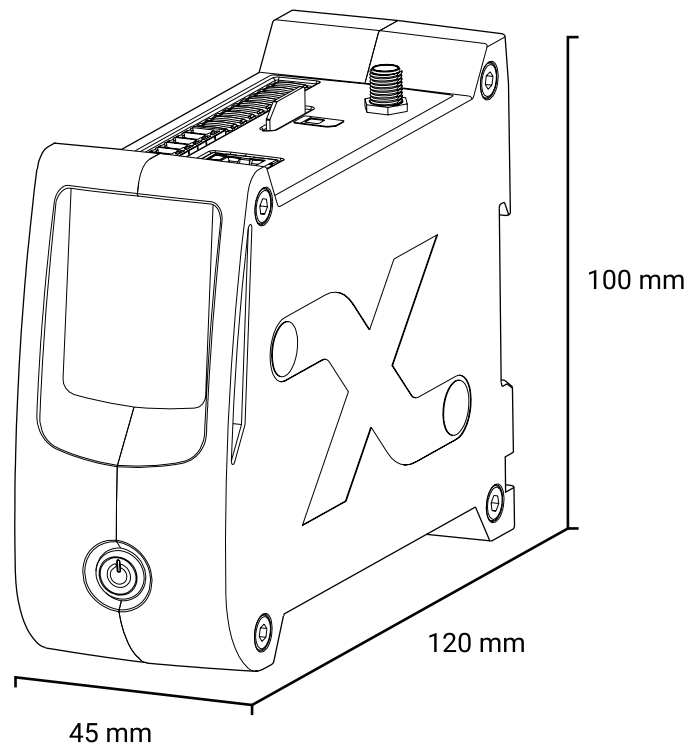
CPU	ARM9 @ 210MHz
RAM	64 MBytes
Flash	1 GByte NAND
Operating system	Linux 2.6

## ELECTRICAL CHARACTERISTICS

Power source	9-32VDC
Average current	300mA @ 12VDC
Peak current	500mA @ 12VDC
Analog inputs	2 inputs, not isolated, 0-5V, 0-10V 0..20mA, NTC 10K
Digital inputs	8 inputs, not isolated, dry contact
Digital outputs	2 relays, 1A 30VDC
I/O expandability	additional expansion modules available

## MECHANICAL CHARACTERISTICS

Enclosure	Plastic, DIN rail mountable
Dimensions(LxWxH)	45 x 120 x 100 mm
Weight	275g
Operating temperature	from -10°C to +60°C
Storage temperature	from -25°C to +85°C
Humidity	5% - 95% (non condensing)



## CONNECTIVITY

- Modem 2G, 3G, 4G
- Ethernet 10/100 Mbit/s on RJ45
- Wireless WiFi IEEE802.11b/g/n (STA) optional
- Easy VPN through Quick Tunnel
- Routing: NAT, IP and port forwarding
- Advanced routing
- Optional GPS

## COMMUNICATION PORTS

- 2 serial ports RS232
- 1 serial port RS485
- Ethernet 10/100 Mbit/s
- Optional USB host Interface (type A)

## MAIN FUNCTIONALITY

- Input/Output monitoring and control
- Modbus Master RTU/TCP
- Modbus Slave RTU/TCP

- Built-in web server
- Scheduler
- Data Logger
- Remote Software Upgrade
- Configuration backup/restore
- Multi-level users and groups
- Advanced events management
- Alarms sending through SMS/Email
- Real-time graphs
- Plug-ins support
- IPcam support

## MANAGEABLE FROM

- Built-in web server
- APP
- Nethix Cloud
- HTTP API

## DATA DELIVERY

- Email Report
- HTTP: JSON/XML

- HTTPS
- FTP
- SNMP
- Dropbox
- Compatible also with other IoT platforms

## REMOTE ACCESS

- Serial
- USB
- Ethernet
- WiFi (optional)

## APPLICATIONS

- Industrial IoT
- Water and Gas
- Energy and Environment
- Industrial Automation
- Predictive maintenance
- Remote Access to PLC/HMI/PC
- Building automation
- Broadcast and telecom

CODE	PRODUCT	DESCRIPTION
90.10.005	WE500 4G	LAN connectivity and 4G and 4G/LTE (B1, B3, B7, B8, B20, B28A) with fallback on 3G (B1, B3, B8) and 2G
90.10.003	WE500 3G	LAN connectivity and 3G/HSPA (B1, B2, B4, B5, B8)
90.10.001	WE500 2G	LAN connectivity and 2G/GPRS quad band
90.10.004	WE500 NO MODEM	LAN connectivity
90.10.002	WE500 DUAL MODEM	LAN connectivity and double communication channel with Modem 2G/GPRS and 3G/HSPA
90.11.001	WE500 RACK	LAN connectivity and double communication channel with 2G/GPRS and 3G/HSPA Modem, integrated UPS power supply unit, in 1U 19" RACK format.