

# WE500R

Dual Modem 3G + 2G | SMS | WEB



water



energy



gas



industrial



home  
automation



m2m

**WE500R** is a redundant, autonomous and high performance Dual Modem 3G + 2G wireless solution specifically designed for the ICT and broadcasting industry for remote monitoring, control and data logging. It is a full-featured device with capabilities that range from a built-in web server to SNMP, VPN and UPS.



## Connectivity

The WE500R provides a redundant connectivity thanks to its unique Dual Modem 3G + 2G hardware with two antennas and two different SIM cards. The WE500R provides also LAN and wireless LAN connectivity. Any of these channels can be used to establish a secure and reliable VPN between the WE500R and the customer monitoring stations.

## Reliability

The WE500R contains a switch mode power supply with battery backup that detects the network status and battery power outages. This capability, when needed, powers-off the WE500R safely and informs one or more selected users.

## Remote management

The WE500R remotely handles the different functions of a modern rack system and its cooling unit. It provides different communication mechanisms to the managed units including protocols such as Modbus and standard digital and analog inputs.

## Data logging and delivery

The WE500R stores periodically the specified system parameters. All the monitored parameters and triggered events are stored in the capable internal memory. The WE500R delivers data through secure channels to the customer's servers or cloud services using standard protocols.

## Monitoring

The WE500R continuously monitors the rack status parameters such as the temperature or the door opening/closing and signal alarms based on the value of these parameters. The alarms can trigger different types of actions such as sending an email, SMS or modifying other parameters.



**NETHiX**  
WE CONTROL

# WE500R

Dual Modem 3G + 2G | SMS | WEB



water



energy



gas



industrial



home  
automation



m2m

## TECHNICAL FEATURES

### Input/Output

- 6 digital inputs dry contact
- 2 relay outputs (1A, 240Vac / 30Vdc)
- 2 analog inputs (0-5V / 0-10 V / 0-20mA / NTC)
- 1 RS232 serial port
- 1 RS485 serial port
- Modbus support: Master/Slave RTU and TCP

### Communications

- Quad band Dual Modem 3G + 2G
- UMTS/HSPA, GSM/GPRS, SMS
- Integrated Dual SIM ports
- Integrated web server
- 10/100 Mbit/s RJ45 Ethernet
- USB Host A (optional)
- WiFi (optional)
- Single Modem with Dual SIM (alternative to Dual Modem)

### UPS

- Input voltage range (nominal): 195-265 Vac / 50 Hz
- Power: 24 W
- Efficiency: 0.8
- Frequency: 100 KHz
- Isolation: 3000 Vac
- Set of 10 NiMh 2100 Mah batteries
- Humidity: 90% non condensing
- Cooling system: by natural convection
- Operational temperature: -10°C / +50°C
- Storage temperature: -25°C / +85°C
- Protection: electronic (shot-circuit, overload and thermal)

### User-friendly

The WE500R can be completely configured and monitored directly through its built-in web interface; there is no need to install additional software. Backup and restore functionalities allow to replicate a configuration across many devices making the configuration of several racks or cooling units extremely fast.

### Integration

The WE500R is a core product inside the Nethix solutions ecosystem and therefore it is naturally integrated into the solutions portfolio offered by the company. Nethix's cloud portal provides the control and monitoring of extensive rack installations.

### Highly customizable

The WE500R is the ideal device for hardware and software custom solutions for the ICT and broadcasting industry. The WE500R is completely designed, developed and manufactured by Nethix in Italy.



**NETHIX**  
WE CONTROL

Nethix S.r.l.

Via dei Pini, 21  
31033 Castelfranco V.to  
(TV) - Italy  
T. +39 0423 770750  
F. +39 0423 770749  
info@nethix.com



nethix.com