# WWW.INFOPULSAS.LT / info@infopulsas.lt



# **Product Catalogue**

Vertical Solutions | Routers | Modems | IoT Platform & Software



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# Why Webdyn

At Webdyn we work to manufacture the best IoT devices on the market. Our product portfolio is designed to help our customers access opportunities within the rapidly growing IoT and industrial IoT environment. We design modems, gateways, routers and IoT software solutions. From automation, metering or photovoltaic, to public transportation connectivity – hundreds of thousands of our networking devices are currently at the heart of our customers' IoT solutions.



# Smart Grid & Photovoltaic

Managing power production and consumption thanks to the use of wireless communications in solar installations.



#### **Smart Cities**

Connected sensors, vehicles, and devices require secure and reliable IoT connectivity products.



# Smart Building & Home

Smart building management thanks to a smart network of wireless devices and cloud management systems.



# **Smart Metering**

Real-time information on power consumption for a more sustainable world.



# **Smart Industry 4.0**

Global adoption of automation demands the ability to monitor and manage equipment remotely to increase productivity.



# Smart Transportation

Communication devices with certificates for transportation, to achieve a more intelligent transportation network.

# **Smart Grid & Photovoltaic**

Stay connected to your field data



### WebdynSun

Gateway for solar plants that monitors and collects data from solar plants in a single device.

- RS485/232
- TIC meter
- Pulse inputs
- Analog inputs
- Digital I/O

- Ethernet
- DIN rail
- Plug & Play
- Remote configuration
- Alarr



# WebdynSunPM

Gateway for solar plants with Power Management that collects and analyzes data, and manages photovoltaic installations.

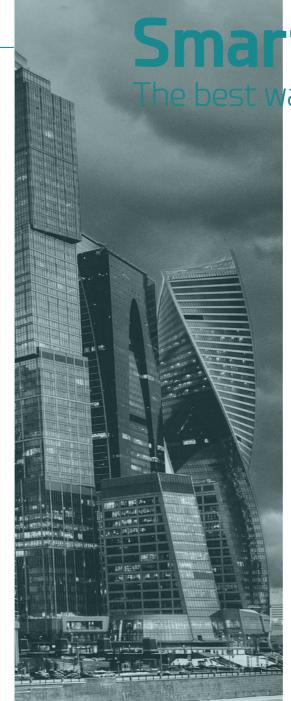
- RS485
- 0-10V / 4-20mA
- Pulse inputs

Ethernet

DIN rail

- ration Relay
- Alarms

- User programmable
- Compatible with most platforms
- Secure MQTT, MQTTS, FTP/S
- Plug & Play
- Remote configuration
  - PM: zero injection capability





The best way to connect your city services



# WebdynEasy LoRaWAN

The WebdynEasy LoRaWAN platform is specific to wireless networks using LoRa radio technology.

■ Plug & Play

Remote configuration

Modbus RTU and TCP

■ FTP/S. HTTP/S connection

- 4G/3G
- LoRaWAN
- RS485/422
- Ethernet
- Open VPN
- Webservices



# MTX-StarSensor

LTE/4G IoT modem for sensor control with IP67, Ultra Low Power, and primary batteries up to 10 years autonomy.

- 4G/3G
- Dual SIM
- IP67
- Ultra Low Power
- Auitiona
- Aditional optional

Primary batteries

1x sensor power supply

features

# Smart Building & Home Make life easier by connecting your buildings



# WebdynEasy W M-Bus 868MHz

The WebdynEasy W M-Bus 868MHz hub is designed for wireless networks using wireless M-Bus radio technology.

- LTE-M/NB-IoT, 2G
- Wireless M-Bus
- BLE (optional)
- Battery
- Wallmount
- DIN rail (optional)

- Plug & Play
  - Remote configuration
    - FTP/S connection

    - Data encryption

- 4G/3G
- Modbus RTU and TCP
- FTP/S, HTTP/S connection



# WebdynEasy LoRaWAN

The WebdynEasy LoRaWAN platform is specific to wireless networks using LoRa radio technology.

RS485/422

Ethernet

Open VPN

Webservices

- Plug & Play LoRaWAN
  - Remote configuration



# WebdynModbus

The WebdynModbus gateway is used to monitor and collect data from Modbus equipment (slaves).

- 4G/3G
- Plug & Play
- Remote configuration Ethernet
- RS485
- Modbus TCP and RTU
- DIN rail



# MTX-Router-Q

An innovative LTE cat.4/4G entry level industrial IoT router with Gigabit Ethernet, and 3G/2G fallback.

- 4G/3G/2G
- Webserver GigaEthernet SMS control
- AC power supply
- LiPo battery
- VPN: IPSEC, OpenVPN

Email

DIN rail

# Highlights

Specifically designed for building and home management.

Control energy efficiency, temperature control, security, maintenance, etc.

Also ideal for industrial equipment and products: PLCs, machines, boilers, air conditioning, etc.

# Remote control in real time

through mobile devices, computers, etc., and monitor your data with our IoT platform.



WATTHOUR METER

3W TYPE C1SR 60Hz TA 30A 1.0 Km



# MTX-StarEnergy-M

The MTX-StarEnergy-M is an innovative industrial modem with a set of features specially oriented for the electric market.

- 4G/3G/2G
- Serial gateway
- USB 2.0
- SNMPv3
- RS232/422/485
- TACACS+

**230V** 

Watchdog

CSD

- DIN rail
- Webserver



# MTX-StarEnergy-E

Innovative industrial modem that comprises a set of features specially oriented to the electric market.

Webserver

SNMPv3

- USB 2.0
- Serial gateway
- RS232/422/485

■ 4G/3G/2G

- AC&DC powered TACACS+
- DIN rail. wall mount Firewall
- CSD
- Watchdog



# MTX-StarWater

MTX-StarWater is a smart communication system for the management of cold and hot water supply networks.

- LTE-M/NB-IoT, 2G
  - Internal battery Ultra Low Power
- Worldwide bands
- RS485 ■ IP66/67
- BUS UNE82326 Industrial temperature
- Dig. pulse input Configurable firmware



# WebdynPulse

The WebdynPulse gateway is used to share all the data from three meters with a pulse output in a single box.

2G

- Plug & Play
- Ethernet

DIN rail

- Remote configuration
- 3 pulse inputs

Multi-fluid meters: remote

Highlights

Monitor energy

with customers.

Plan and control electricity,

gas and water consumption.

consumption in real time to apply consumption good

allows them to make

practices. This optimization

significant energy savings.

Energy efficiency economic

model, sharing of savings

reading of water, electricity, and gas meters...

# **Smart Industry 4.0** Revolutionize your industrial production



#### MTX-Router-Titan II-S

LTE/4G/3G/2G industrial IoT router that provides an easy integration and a variety of powerful interfaces.

- 4G/3G/2G
- Ethernet
- RS232, RS485
- WiFi
- 2x digital inputs
- USB

- DIN rail
- Webserver
- Modbus
- Datalogger
- HTTP/S, MQTT/S, FTP/S
- VPN: IPSEC, OpenVPN



#### MTX-Router-EOS

Entry level compact IoT device developed for industrial applications, with LTE/4G, dual SIM and 3x Ethernet.

- 4G/3G/2G
- Dual SIM
- WiFi
- 3x Ethernet
- RS232, RS485
- DIN rail

- Modbus
- DHCP
  - Firewall
  - Serial tunnelling
- MQTT
  - VPN



#### MTX-IoT-S

Innovative and powerful all-in-one solution for the IoT sector, with LTE/4G connectivity, 8x digital I/O, 2x ADC, ULP and battery.

- 4G/3G/2G
- GPS
- RS232, RS485
- GPIO management
- 8x digital I/Os 2x ADC. 4x DAC
- Relay management MQTT/s
- Latch relay
- Modbus
- Ultra Low Power
  - Datalogger

# Highlights

Ideal for a wide range of industrial equipment and different products: PLCs, machines, boilers, air conditioning, etc.

Improvement of city management: development of personalized products as needed.

Connect machines. tools, sensors, and other equipment on the floor to give process engineers and managers more visibility of the production.

# Modems, Routers & Accessories





#### MTX-IoT-S

LTE/4G programmable modem.

- **4**G/3G
- Dual SIM
- RS232/485
- Latch relay
- 8x digital I/O Ultra Low Power
- 2x ADC. 4xDAC GPS









#### MTX-StarSensor

Powerful modem for monitoring.

- 4G/3G
- 1x sensor pw supply
- Dual SIM
- Primary batteries
- IP67
- Aditional hw features
- Ultra Low Power
- AGRICULTURE SMART CITIES METERING BMS







IoT router for automotive with ITxPT.

- LTE /4G
- 1x Ethernet
- 2x RS232/485 1x HDMI
- GPS 8x DI, 4x DO
- ITxPT compliant 2x CAN



#### MTX-Router-Titan II-S

LTE/4G/3G industrial IoT router.

- 4G/3G/2G
- Digital input
- Ethernet
- USB 2.0
- RS232/485
- DIN rail







### MTX-Router-EOS

4G, dual SIM & 3x Ethernet router.

- 4G/3G/2G
- RS232/485 DIN rail

Modbus

- Dual SIM
- Serial tunnelling TRANSPORTATION BMS





#### MTX-Router-Q

LTE cat.4/4G entry level router.

- 4G/3G/2G
- DIN rail
- Giga Ethernet Webserver
- AC power
- SMS control
- LiPo battery Email SMART CITIES INDUSTRY BMS



# MTX-Router-Titan mini

4G/3G/GSM/GPRS compact router.

- 4G/3G/2G
- USB 2.0 Ethernet
- Accelerometer RS232/485





Relays





Titan software



# Sensors



#### Sens'RF LoRaWAN

To measure and send local data.

- Sensitivity -136dBm
- 10 years autonomy
- Long radio range
- Resistance to noise



# Sens' Temperature

Contact temperature sensor.

- 1x 4..20 mA, max, load 500 Ω
- Power supply 15..24V
- 0 to +50°C
- Protection IP65



# MTX-OpticalProbe IEC

For data communication.

- IEC62056-21 and EIA232
- ■+3.3~5VDC, 15mA
- DB9 male connector
- Magnetic adhesion



#### MTX-Sensor TEMP

For living areas, servers...

- Range -55 to 125 °C
- Accuracy of ±0.5 °C
- Resolution 0.1 °C
- Communication ASCII





An IoT platform designed for your needs



## Security

Comprehensive security capabilities to satisfy the most demanding requirements.

# Interoperability

Integrate it with significant amount of legacy operations technologies including SCADA, M2M and other on-premises infrastructures.

#### **Scalability**

Access as much or as little data as you need, and scale up and down as it is required by adding new devices.

### **Programmability**

It has remote control, and flexible and adaptable configurations with drag and drop, and custom code.

# Accessories

At Webdyn we offer a wide range of accessories for our devices with LTE/4G/3G/GPRS connectivity, GPS/GNSS, WiFi, Bluetooth, etc. Read the QR code and discover all available accessories in our catalog and website.

- POWER SUPPLIES: all kinds of power supplies and Li-Po batteries for industrial equipment.
- **ANTENNAS**: LTE/4G, 3G, 2G, WiFi, and GPS antennas in several formats and different types of cables, lengths and connectors.
- **RF and DATA CABLES**: coaxial and data cables with different types of connectors.
- **CONNECTOR ADAPTERS**: RF and data connectors adapters (SMA-FME, DB15-terminal block, DB15-DB9...).
- **DIN RAIL ACCESSORIES**: accessories for the assembly of DIN rail with Webdyn devices.









#### **Features**

Save your time managing devices:

- Data collection
- Data processing

Locate your devices quickly:

- Location monitoring
- Asset visualization

Automate based on real time data:

- Command templates
- Rules engine

Monitor remotely, get notified in real time:

- Alarms
- Events

Connect anything to Cervello Stem:

- 3rd party integrations
- No SDK

Design your dashboard, arrange widgets:

- Customized dashboard
- Dashboard widgets





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#### MTX-Titan

Included in all MTX-Router-Titan devices, the configuration can be intuitively done from any computer.

#### Serial gateways:

- 3 simultaneous gateways
- Modes: TCP server/TCP client
- SSH encryption enabled
- Incoming CSD call for metering applications

#### Modbus:

- Modbus TCP/Modbus RTU gateway
- Modbus TCP/RTU to SNMP gateway (SNMP)
- Modbus slave RTU/TCP
- User scripts

#### Datalogger:

- Data from sensors (temperature, distance...)
- Serial data collected by RS232, RS485 or USB
- GPS data for tracking applications
- Automatic data sending with JSON format

#### SMS:

- Full control by SMS with phone authorizations
- Alarms (digital input, temp., M-Bus data read)
- Send/receive SMS by Modbus TCP (for PLC)

#### Sensor compatible:

- Temperature, distance and other sensors
- Modbus RTU/TCP sensors
- RF868 LPWAN sensors
- Internal jamming detection sensor with alarm

#### VPN:

- IPSEC + OpenVPN with client/server mode (25 clients)
- Permanent or activated by SMS, AT command...

#### Other:

- Compatible with DynDNS/No-IP & private DNS
- GSM cell location
- Programmable autoreset (schedule, timer...)
- Multioperator SIM utilities (integrated RSSI)
- Time synchronization (NTP) with timezones
- Over The Air firmware upgrade
- Full management with AT command
- NAT, firewall, DHCP, etc. and other features
- 4G connectivity supervisor
- Traffic control, TACACS+ multiuser profiles

# **MTX-Tunnel**

Included in all compatible modems, it turns them into powerful LTE/4G/3G/GPRS series gateways.

#### Connectivity:

- 4G/3G/2G serial gateways: TCP client, TCP server, UDP client/server, accept incoming CSD calls, up to 2 simultaneous tunnel
- IP connectivity mode: permanent 100% time, under request (SMS, missed call), change on a digital input, analog input out of level, serial data on RS232/RS485 port, scheduled date/hour/time

#### TCP services:

- Web server, Telnet, SNMP, TACACS+, NTP
- Datalogger: MQTT, MQTTs, HTTP, HTTPs, FTP
- Shows the status of digital and analog inputs
- Change digital output level and relays
- Execute AT commands remotely: Telnet, MQTT/ MQTTS, SMS, HTTP

### Security:

- Authorized phone numbers
- Firewall IP, SSL/TLS connections, encrypted configuration
- Secure OTAP (remote FW upgrade)
- Watchdog hardware

#### Alarms:

- Send SMS/MQTT alarm when the level of digital or analog input change
- SMS can be sent to up to 10 remote users
- Execute remote AT commands
- Change the status of digital outputs & relays
- Customizable SMS commands

#### Metering, modbus, sensors:

- 868 MHz remote monitoring sensors (LPWAN)
- Master for Modbus RTU devices, Modbus TCP slave, Modbus TCP to RTU gateway
- Relays control
- Access to serial devices using 4G/3G/2G and GSM
- Astronomical clock

#### Solutions for dynamic IP:

- IP session using a SMS or missed call
- DynDNS and NoIP
- Private DNS

# Highlights

The MTX-Titan software can connect locally via Ethernet or WiFi, or remotely via 4G/3G/2G. It can also connect via SMS, Modbus RTU, Modbus TCP and SNMP.

The MTX-Tunnel software provides remote connectivity to devices that only have an RS232 or RS485 serial port, so they become smart devices, and are able to send sensor data (temperature, humidity, pulse counters...) to the cloud.

# What & Where

At Webdyn we have a complete team of R&D engineers devoted to the development of hardware, firmware and software.

We are committed to offering an integral solution to any IoT project. From the design and manufacturing of IoT devices to the programming of our IoT platform, Cervello Stem. Our devices range from basic equipment with easy installation and configuration, to expert equipment for the most complext solutions (photovoltaic, metering, BMS, transportation, etc.). To our wide range of products, we can also add our ability to customize our products to the needs of any project our customers may have.

#### Our Team

Webdyn has a team of 70 R&D engineers dedicated to the development of our high quality products.

- 13 firmware engineers
- 6 QA engineers

# **Technical Support**

We have a team of specialized engineers who will provide you with one of the most advanced technical support in the IoT industry.

- 18 technical support engineers
- 14 technicians managing manufacturing subcontractors
- 24 hours a day, 365 days a year

### **R&D Offices**

- Madrid (Spain)
- Paris (France)
- Barcelona (Spain)
- Seville (Spain)
- Cairo (Egypt)

#### **Commercial Offices**

- Delhi (India)
- Lisbon (Portugal)
- Dubai (UAE)
- Lima (Peru)
- Taipei (Taiwan)

### **Distributors**

- Syscom-ProREP (France)
- Tyrrell (UK)
- Maritex (Poland)
- Alcom (Benelux)
- Elteco (Norway)
  - DeltaM2M (Denmark)

- Melchioni (Italy)
- Sigint Solutions (Cyprus)
- FCC PS (Czech Rep.)
- Gamaxnet (Hungary) Infopulsas (Lithuania)
- Scatek (Turkey)
- Smart Leader (Taiwan)
- Liseng (Hong Kong)

- FutureFirst (Singapore)
- Oritech (Vietnam)
- RSPOT (Philippines)
- Australis M2M (Australia)
- Amplicon (EAU)
- AresM2M (Peru)
- Enertronics (Mexico)



- 15 hardware engineers
- 47 software engineers

