

# iMod Series

INTELLIGENT TELEMETRY MODULE

THE SIMPLES WAY TO THE BEST SOLUTIONS



iMOD series includes\*:

- Ethernet, GPRS
- 2x RS-232 and 1x RS-485
- 8x Digital In
- 6x Digital Out
- 4x Analog In
- 2x transmitter output

\*depending on version

## CUSTOM SOLUTIONS

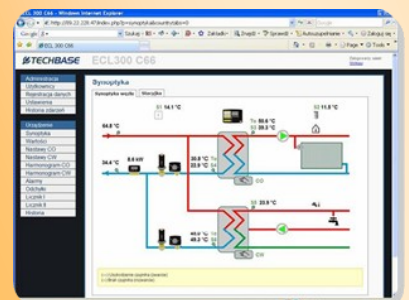
iMod series devices are innovative and effective platforms for modern automated, telemetric, and remote monitoring systems.

Thanks to the Linux system, they are characterized by stability, functionality, and safety of the highest level.

iMod modules are already operating in automated installations around the world, in countries such as Belgium, Argentina, Spain, or Germany.

## WEB SOLUTIONS

Thanks to an integrated APACHE2 server with a SQLite database, any client can quickly create WWW visualizations.



## We make connections possible

### Most important features

#### Controller for control and monitoring systems

- serial port converter
- MODBUS Master/Slave/Gateway
- datalogger, SQL server
- SNMP/MAIL/FTP/WWW server

#### Satisfies requirements for devices of scattered systems

- low power consumption
- fanless
- DIN rail montage
- Watchdog, SecurityChip, RealTime Clock and others
- safety - firewall, SSL

#### A variety of functions and network resources

- Ethernet and GPRS/EDGE modem
- GPRS router, NAT
- supports VPN, SSH, PPP and others

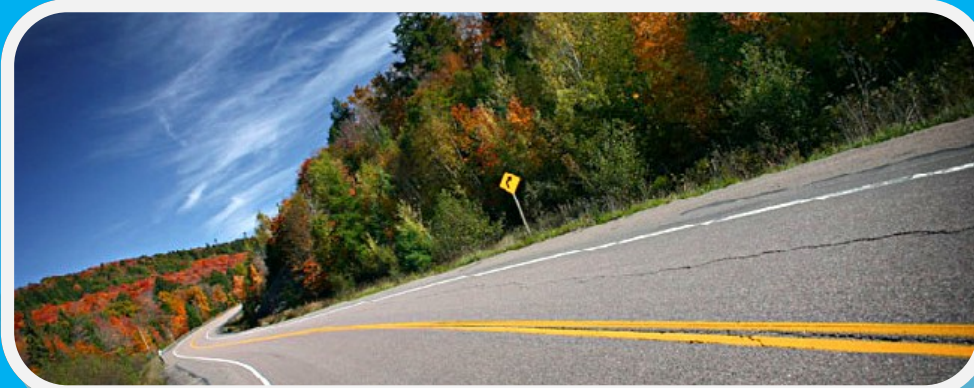
#### Full MODBUS support

- Access to integrated resources and MODBUS Gateway / Modbus Router functions

#### Data logging

all data is locally buffered with archiving capability through a WWW panel

- Online access and graphical data visualization
- e-mail and SMS notifications
- Simple definition of alarm messages



## About the iMod

The heart of the computer is an efficient and energy-saving RISC-type ARM9 processor, which, in addition to large memory resources and the Linux system, gives unlimited potential applications.

### Why Linux?

Every IT specialist knows what Linux has to offer for servers. More and more often, thanks to the power of energy-saving processors, this system becomes the ideal platform for embedded systems and all kinds of drivers.

The Linux system is distinguished by:

- world standards, stability, and unlimited capabilities of platform development
- enormous program and tool bases available free of charge, along with source code
- access to a full knowledge base, documentation, and guides on various levels

### Configuration

All capabilities always have many configuration options. The iMod has a user-friendly configuration of many options,

which is realized through the editing of one simple XML file. Thanks to this, many properties can be arbitrarily defined, such as:

- method of processing of data acquired by the device
- alarm options for selected values
- data logging properties

### MODBUS Master/Slave/Gateway

Modbus is an open standard of communication, widely used in automation. Because of the uncountable number of devices and software using it, the protocol is used very frequently as a medium for integration of various systems. NPE can operate in Master and Slave mode for the Modbus protocol.

**Modbus Gateway** – because of the large amount of slave type devices, the functionality of a Modbus gateway or Modbus proxy is used, thanks to which it is possible to convert the transmission channel from RS-485 buses to TCP/IP, for example.



### Datalogger

The iMod services SD cards up to 2 GB of capacity and has a built-in fast flash memory of up to 1 GB capacity which makes this device a functional data logger. Data can be stored in SQL databases as well as in files of any structure. Access to data can take place at any moment through:

- an FTP client,
- a database client
- www pages

### English documentation

For beginning users the English instructions may be priceless in helping to create your own project.

### Elastic platform

For large projects, there is a possibility for preparing a dedicated device version equipped with additional interfaces (e.g. USB) or a larger flash memory.

## iMod features



SNMP



PSQL



Modbus



Security



Watchdog



DIN



NAT



Firewall



Ethernet



Tools



SDK



Linux



E-MAIL



WWW



Java



RTC



Fanless



C/C++



GSM



Router

## Monitoring and controlling transformers

The rising need for electricity and client demands from suppliers make the matter of supervising their efficient, effective, and stable functioning a priority. Because transformers are found at large distances from each other, using wired technology is expensive and unpractical.

