



GPRS Option Board CMI 2130

GPRS interface for Remote Heat and Cooling Meter Reading

The GPRS option board has been designed to provide utilities and service companies with the latest state of the art remote reading technology for heat- and cooling meter applications in order to improve their productivity and sell extra services to their customers.

The CMI2130 is integrated into the CF Echo II, CF 51 and CF 55 heat meter series and provides a flexible and cost-effective GSM/GPRS M-Bus AMR solution. The option board is configurable by SMS and can receive software updates over the air. Its flexible and versatile design makes it simply the most powerful GSM/GPRS solution on the market.

FEATURES AND BENEFITS

- » Ease of installation
- » High reliability
- » Advanced features
- » Flexible communication interfaces

Benefits of GPRS solution

The standard open protocol design allow for fast integration into existing billing and reporting systems. Transparent M-Bus communication with GSM, TCP and UDP works with any software supporting the M-Bus standard and files can be uploaded using regular FTP and HTTP servers.

The e-mail report feature prevents firewall and IT-structure implementation problems and reports can be configured for better readability.

Compatibility

The CMI2130 board is compatible to the following Itron heat and cooling meter of the latest CF-family range of products:

- » CF Echo II
- » CF 51 calculator
- » CF 55 calculator

For retrofit of meters already installed in the field the board can easily be mounted in the meters option board slot.

High reliability

The option board is directly interfaced with the calculators micro processor and processes the standard M-Bus data frame from the meter. This guarantees the perfect correlation between the heat- and cooling values and the remote reading index. The integrity and reliability of this data is key for use in billing applications.

Powerful and Advanced Features

The CMI2130 fits into almost any kind of meter collecting system, i.e. remote reading for M-Bus compatible meters, water meters, gas meters, temperature meters, heat meters etc.

The CMI2130 has the following key capabilities:

- » Read and store meter values integrated in CF Echo II, CF 51 and CF 55 heat meters.
- » Provide M-Bus master functionality for additional 8 external M-Bus devices.
- » Read and store meter values from any meter following the standard M-Bus protocol.
- » Serves as M-Bus data-logger with memory space for up to 5000 meter readings.
- » Collect meter values using E-Mail, FTP, HTTP, SMS, Transparent GSM and TCP.
- » Send configurable report templates to enable manufacturer specific value reports, system reports etc.
- » Configurable using SMS, HTTP and telnet.
- » Remotely updatable application, firmware and resources using Java™ standard OTAP, preventing unnecessary service calls.

Flexible Communication Interfaces

The CMI 2130 option board combines multiple state of the art communication interfaces for flexible system integration:



E-mail reports



SMS configuration



HTTP post



Master- and Logger functionality



FTP file transfer

Technical specifications

GSM / GPRS Specifications

Frequency	Quad Band GSM 850/900/1800/1900 MHz
GSM data	Up to 14.4 kbps, V.110, non transparent mode
GPRS data	Multislot, up to class 12

Communication Interfaces

E-mail	Using SMTP
FTP	Standard FTP client
HTTP	Standard HTTP client, POST & GET
Transparent M-Bus	GSM CSD
Transparent M-Bus	Static IP TCP

Functional Specifications

Power supply	Specific mains power supply board. 100-240 VAC
Power consumption	< 2.5 W max.
Operating temperature	5°C - 55°C
Storage temperature	0°C - 55°C

M-Bus Master Specifications

M-Bus standard	EN 13757-2 / -3. Full M-Bus decoder implemented
M-Bus baudrate	300 and 2400 baud
Max. M-Bus devices	8 unit loads
Max. cable length	1000 m

M-Bus Logger Functionality

Data memory	1.3 MByte
Av. no. of stored readings	5000
Available logger intervals	1, 5, 10, 15, 20, 30min, 1h, 12h, 1d, 1week, 1month

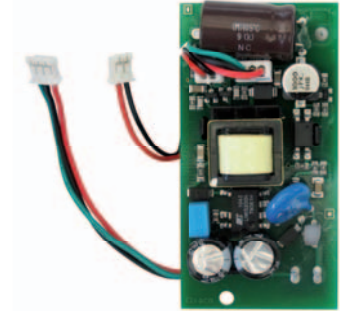
Ordering Information

Type	Reference N°
GPRS OptionBoard CMI2130	6203001006

Retrofit pack accessories

The GPRS Optionboard is provided as retrofit package for in field installation. The package includes:

- Specific 230V AC mains power supply for the meter and option board.



- External GSM antenna



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