MTU-5i

Cellular phones for machines

licera
MTU-5i

Key features

- Dual band GSM engine (GSM 900/ 1800)
- SMS and CSD
- Robust aluminum case
- 4 digital outputs
- 6 isolated digital inputs
- 9 - 36 V DC single power supply
- RS232 and RS485 serial interface (optional CAN-2.0B)
- An easy-to-use ADK (Application Development Kit)

MTU-5i (Machine Telematic Unit) is an M2M (machine-to-machine) communication device designed to bring wireless connectivity to machines and for remote management. The MTU-5i is a part of the Licera M2M terminal program designed to meet a broad range of applications within the professional industry. By downloading our turn-key applications or develop your own using our ADK, the MTU-5i can include wireless telematics in your strategy.
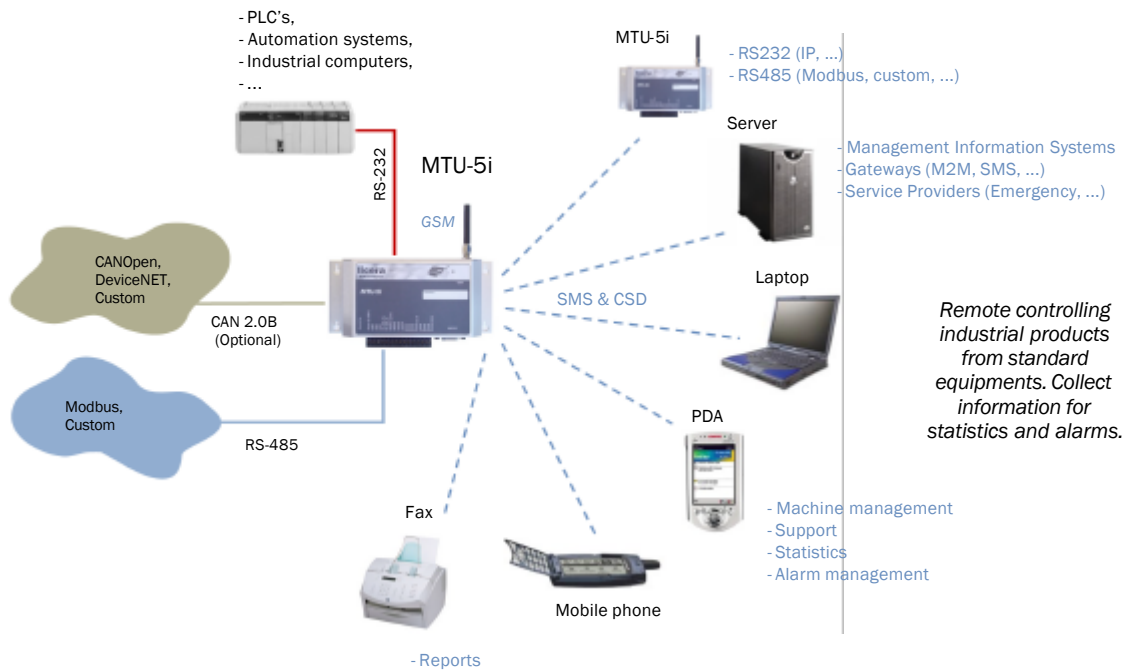
Typical applications

The MTU-5i is easily integrated into a broad range of industrial applications, such as survailence of process parameters, rate of consumption, elevator control, access controls and much more. The MTU-5i combines the functionallity of a generic PLC, datalogger and a radio communication unit.

Data storage and communication

MTU-5i is able to store a large amount of data which later can be processed by the MTU-5i or uploaded to a managment system for statistical analisys. The MTU-5i can use both SMS and CSD (Circuit Switched Data), which makes a cellular phone suitable as a remote control.

Turn-Key applications vs. developing your own

Our Turn-Key applications are designed to meet a broad range off standard tasks, like measuring rate of consuption in a process, sending alarms based on statistics, handle periodic tasks like turning systems on and off on a minute-by-minute basis, all remotely controlled from all over the world, as long as you have the right access code. For applications where our Turn-Key solutions are not applicable and you have your own skill in C, we provide an ADK (Application Development Kit). Our experience of developing applications, we have a wide spectrum of software modules which will shorten your development time drastically, and help you focus of the key issue of your application.

- PLC's,
- Automation systems,
- Industrial computers,
- ...

MTU-5i

- RS232 (IP, ...)
- RS485 (Modbus, custom, ...)

Server

MTU-5i

RS-232

GSM

- Management Information Systems
- Gateways (M2M, SMS, ...)
- Service Providers (Emergency, ...)

CANOpen,
DeviceNET,
Custom

CAN 2.0B
(Optional)

SMS & CSD

Laptop

Remote controlling industrial products from standard equipments. Collect information for statistics and alarms.

Modbus,
Custom

RS-485

PDA

Fax

- Machine management
- Support
- Statistics
- Alarm management

Mobile phone

- Reports

Technical data

Dimensions	167 x 65 x 40 mm
Weight	260 g
GSM	SMS and CSD
SIM card	small
Band	dual band 900/ 1800MHz
RF power	2W (900MHz)/ 1W (1800MHz)
Input Vdc	9 Vdc – 36 Vdc
Operating temperature	-20 to +55 °C
Storage temperature:	-40 to +85 °C

RS-232 Interface (EIA/TIA-232-F)
D9 female connector
Supported baud rates: 2400 - 19 200
Flow control: CTS/RTS or none

RS-485 Interface (EIA-TIA RS485)
Socket connector (D+, D-)
Supported baud rates: 4800 - 38 400

Antennas
GSM: SMA (female)

Digital inputs (6)
Socket connector
Optically isolated
Levels: 0 - 1V (Low), 2 - 40V (High)

Digital outputs (4)
Socket connector
Low-side switch type (max 40V load)

Compliance
EMC compliance:
- EN 50081-1
- EN 55022, class B
- EN 50082-2
- EN 61000-4-2, -3, -4, -5
- ENV 50204

Deliverables
This product ships with:
- MTU-5i
- 18-pin socket
- User manual
- Serial cable (3m)
- Handsfree

Order Number
5003 00001 9 (MTU-5i)
6015 00000 2 (GSM antenna)

Related products
ADK for MTU-5i
MTU-5 (no digital inputs and outputs)
MTU-5g (GPS, digital inputs and outputs)

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