



End-to-end Solutions for the **M2M Market**

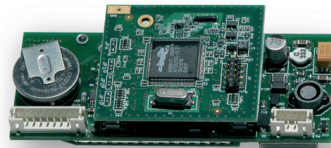
M2M (Machine to Machine) applications require intelligent, flexible and cost efficient systems to unfold their entire potential. Metrilog has the technology and the know-how to help you implement M2M applications. With Metrilog you get an M2M platform encompassing the whole telemetry/telecontrol chain, from the remote units to the final application.



Remote Unit

Available either as a standalone unit with standard bus/serial interfaces or as a flexible, customizable OEM module. The remote unit includes the following features:

- GSM/GPRS based data transfer
- Optional GPS functionality for applications where you need positioning/location
- Flexible sensor sampling and transmission intervals
- Event triggered alarming possible
- Extremely low-power consumption
- Optimized data transmission, resulting in lower operating costs
- Non-volatile memory for intermediate data storage
- OTA (over the air) flash-upgradeable remotely from the data center
- IP-66 protection for outdoor use (ruggedized version)
- Connection of various external sensors or end-devices (optional)



M2M Gateway

The M2M Gateway operated by Metrilog is a Web-based portal to your data. Use it to add and configure your remote devices, for example, how often to sample the sensors or communicate with the gateway. The M2M Gateway offers you a single point of data collection for all your remote devices, wherever they are located. The M2M Gateway provides:

- Standard interfaces like XML, SOAP, Web Services
- Interface protocols to legacy and proprietary systems (optional)
- Pre-defined service level agreements (SLAs)
- Independent from structural and protocol changes at the wireless provider's premises
- Separation between data transfer and data processing
- Additional backup of user data

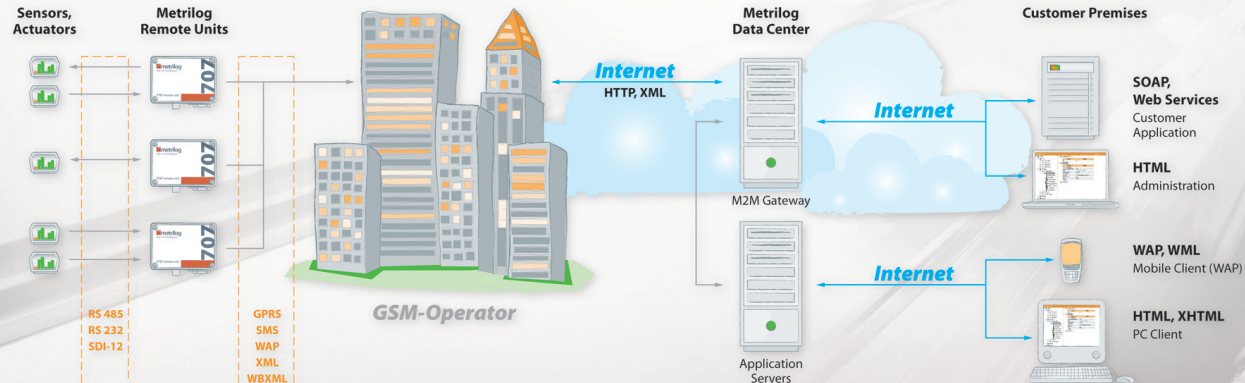
Upon request, Metrilog offers you support in developing your own backend application.



Low-cost GSM/GPRS Communication

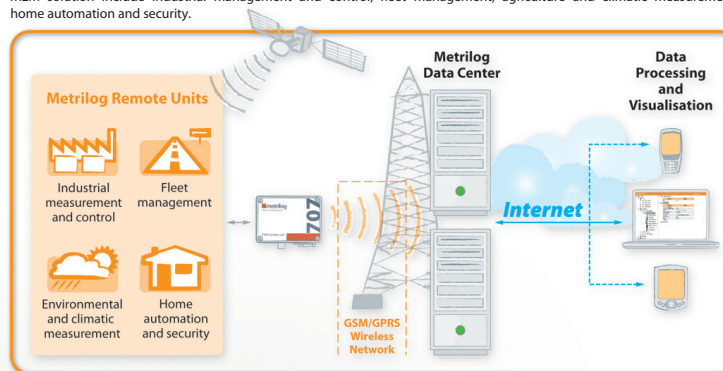
Metrilog's M2M system is carrier-independent and the remote units can be operated virtually worldwide. GPRS (General Packet Radio Service) provides relatively high data transmission rates but keeps costs low because the invoicing method is based on the amount of data transferred. Metrilog performs SIM card administration, GPRS traffic invoicing and rate negotiation with different providers. You get only one invoice for all services, including the cost of data transfers.

- Known, fixed communication costs
- Typically 10 MB-per-month traffic is included (application dependent)
- Simple, concise account statement for all running cost



Applications

Metrilog offers the perfect solution for applications that require permanent, or almost permanent communication between a remote device and a central application. The Metrilog solution is also particularly suitable for applications requiring versatile time- or event-controlled remote data acquisition and/or control. Some of the applications that can benefit from Metrilog's MZM solution include industrial management and control, fleet management, agriculture and climatic measurement, home automation and security.



Remote Unit Specifications

OEM Board

- **GPRS Module:** 900/1800 MHz, 850/1900 MHz
- **Interfaces:** RS 485, RS 232, SDI-12
- **Supported Protocols:** TCP/IP, WAP, XML, WBXML
- **Internal Storage:** 256 Kbytes, non volatile (30 days in a typical configuration)
- **Sampling Interval:** Programmable (minutes, hours, days, weeks)
- **Power Supply:** External, 5.5 to 20 Volt
- **Power Consumption:** Standby, receive mode average 1 mA (@ 12 V)
transmit mode max. 200 mA (@ 12 V)
- **Operating Temperature:** -20° bis +60°C
(-30° bis +70°C upon request)
- **Dimensions:** 45 mm / 95 mm / 25 mm
- **Weight:** 50 g

RTU (boxed)

- **IP-Protection Class:** IP 66
- **Dimensions:** 110 mm / 75 mm / 55 mm
- **Weight:** 400 g



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