

i-module GPRS 3.0 serial/Ethernet for OEM applications

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Regensburg – All GPRS (General Packet Radio Service) based gateways from data communication expert INSYS Microelectronics are also available as OEM modules. Using the *i-module GPRS*, manufacturers of network-based applications can shorten development time and profit from a mature technology which considerably reduces data transfer costs. The integration of INSYS GPRS gateways, which are suitable for industrial environments, enables wireless remote access even in remote locations, regardless of the application type (i.e. local networks, building services engineering or measuring stations). INSYS GPRS modules are available as *i-module GPRS 3.0 serial*, *i-module GPRS 3.0 Ethernet* and *i-module EDGE Ethernet* models.



Figure: INSYS *i-module GPRS 3.0 serial/Ethernet* for OEM applications

Just like a conventional modem, the *i-module GPRS 3.0 serial* can be connected to a control unit via a serial RS232 interface. All modules are designed as quad band units (850/900/1800/1900 MHz) suitable for international use in all GSM networks. They allow direct configuration via AT commands and remote configuration via AT commands transmitted through SMS, CSD or TCP/IP. The *i-module serial* features a response function which can be triggered by a call or an SMS. Due to its asynchronous serial RS232 interface with TTL levels, the gateway can be connected to any simple controller. Furthermore, the *i-modules GPRS 3.0 Ethernet* and *EDGE Ethernet* serve as Ethernet routers with NAT functionality. The latter also supports Enhanced Data Rates for GSM Evolution (EDGE), providing a higher data rate in GSM mobile networks. Both units can be integrated into Ethernet-based networks. The NAT function-

ality (Network Address Translation) enables devices within the local network to easily access external target addresses. The packet-oriented GPRS data transmission service allows for a virtual permanent connection between sender and receiver. Users only pay for the sent data volume, not for the duration of the connection. With high transmission rates up to 85 kbps (for upload and download), permanent accessibility, low fixed costs and easy cost calculation via the data volume, GPRS offers a wide range of advantages in industrial applications.