

Industrial router MoRoS UMTS (3G) ensures maximum data transfer rates

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Regensburg – INSYS MICROELECTRONICS introduces MoRoS UMTS, an industrial router for the third-generation mobile radio standard (3G). The Universal Mobile Telecommunications System provides considerably higher data transfer rates than the GSM standard: while the GSM services GPRS and EDGE allow for a maximum of 230 kbit/s, UMTS enables up to 3.6 Mbit/s. In areas without UMTS coverage, MoRoS UMTS automatically switches to the GSM network.



Figure: MoRoS UMTS from INSYS MICROELECTRONICS

Moreover, MoRoS UMTS features two redundancy mechanisms for safe communication: the unit has two SIM card slots, allowing users to choose between two network providers. Thereby, network failures can be compensated, and maximal availability can be ensured in border areas without roaming costs.

MoRoS UMTS is also available as a PRO version which allows users to connect a second external modem as an alternative communication route e.g. via the telephone network. Additionally, two dial-out targets can be set for each modem, thus compensating receiver failures. Dial-outs and VPN connections can now also be triggered by an input contact which can be operated, for instance, by an external key switch. INSYS MICROELECTRONICS has also optimized the configuration software: the main page now provides a status overview containing concise information on the IP address, 3G status, log-in status and LAN activity.

MoRoS UMTS combines **modem**, **router** and **switch** functions in a compact DIN rail housing measuring 70 x 110 x 75 mm. Thanks to its dial-in/dial-out functions, the industrial router

enables users to implement customized, cost-efficient remote maintenance and remote control solutions for several Ethernet-capable components or networks. If required, MoRoS UMTS establishes TCP/IP connections via NAT. Incoming connection requests are directed to the right local device through port forwarding. Up to five network nodes can be connected to the integrated switch for remote contact. The nodes can also exchange data among each other. The serial interface can act as a serial server for legacy devices. MoRoS UMTS can be connected to the control center directly or via the internet. A web interface enables configuration. INSYS provides MoRoS UMTS PRO units with an integrated firewall and a redundant WAN interface for increased connection security. Moreover, the PRO version allows users to establish VPN (Virtual Private Network) connections. MoRoS UMTS is the first MoRoS device designed for two SIM cards. INSYS MICROELECTRONICS also plans future MoRoS GPRS and MoRoS EDGE versions with redundant SIM card slots.