

- **Smart Remote Controller and versatile Gateway** -
- **Proven technology- successfully used in the industry since 2004** -



• Typ 4xCOM



- compact design
- flexible use in different applications
- secure - usable for CRITIS-Projects
 - VPN (IPsec oder OpenVPN)
 - SSL-end-to-end-encryption (TLS 1.3) with certificate management in our software "M2M-Manager"
 - guaranteed no back door in the firmware
- optimized for remote control application
 - with PLC's from various manufacturers
 - for fault annunciating systems
 - for energy management
 - in SMART-Grid projects

Hardware

- 2x COM (1x RS232/RS485+1x RS485)
- 3x LAN 1000/100 Base-T, RJ45
- 2x USB 2.0 port
- Flash Memory 8GB, SD-Card >=8GB
- opt. 24VDC condensor buffered power supply
- 35mm rail mounted
- shielded aluminum housing

Software

- easy direct connection PLCs (S7-300/400/1200/1500, Modbus-TCP; Modbus-RTU)
- communication via TCP/IP protocol :
 - mobile phone networks (EDGE, GPRS or LTE systems) with low budget M2M contracts and optimized internal data transfers
 - private or public PST lines, ADSL-/DSL networks, intranet LAN/WLAN
- communication with SCADA systems and HMI systems via OPC, OPC-UA (IEC870, Modbus or proprietary drivers on request)
- remote programming capabilities with different PLCs (e.g., Siemens, ABB, WAGO, etc.)
- long-term data storage according to the DWA M207 standard in the event of connection failures
- integrated TCP/IP and PPP stack, IPsec-, OpenVPN-, SSL-capabilities
- redundancy capability already integrated in basic version
- configuration and settings via Baade "M2M-Manager" software or internal web server

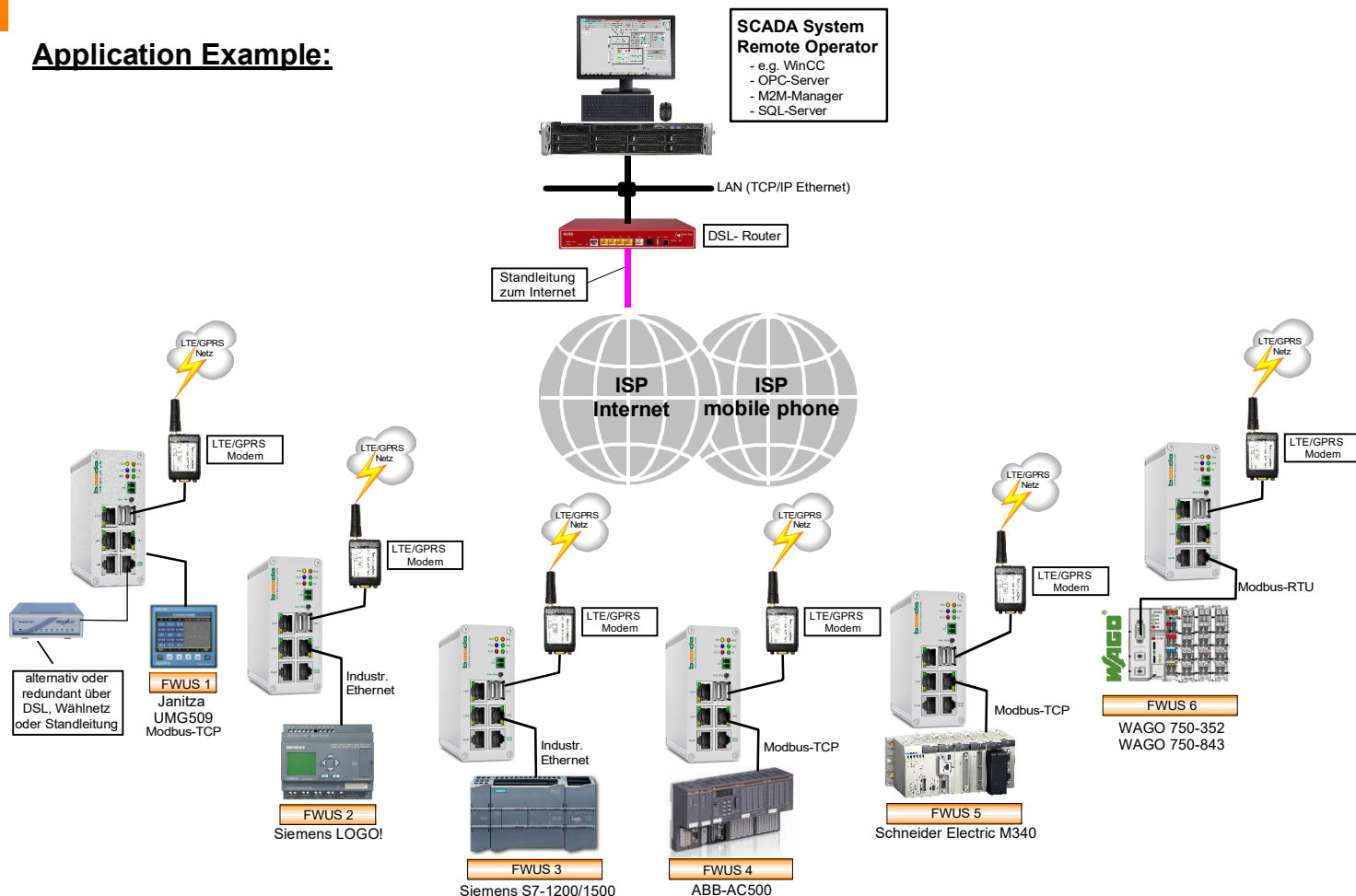
Applications

- Low cost monitoring & control of central sewer systems, fresh water treatment plants, remote facilities, supply and disposal networks etc., both local and remote.
- replacement for permanent public PST lines (always "on" via Internet)
- diagnosis / service via Intranet / Internet
- protocol converter and gateway
- energy management and smart grid projects

Please contact:

Baade M2M-Products GmbH, Koblenzer Str. 13, D-65582 Diez (Germany)
 Telefon: +49 (0) 6432 / 6466467 Mail: info@baade-m2m.de

Application Example:



Technical Data:

com ports	1 x RS232/RS485, 1 x RS485, 2 x LAN 1GB, 1 x LAN 100MB (RJ45-socket), 2x USB 2.0
hardware	ARM-A7-architecture, MEM 512MByte, FLASH 8 GByte, SD-Card >8GB, div. diagnosis LEDs
dimensions	35mm rail mounted, aluminum housing, W46xH105xD105mm, weight: ca. 300g
connections	TCP/IP via GPRS, EDGE, LTE, ADSL, VDSL, etc.
software	connection management, data reduction, redundancy, mean value calculations, historical data buffering, VPN connections, SSL connections with certificates
PLC drivers	S7-300/400/1200/1500, LOGO Ethernet, Modbus-TCP with PLCs from ABB, Schneider Electric, WAGO, Beckhoff, Phoenix Contact, Eaton-EASY, Modbus-RTU, IEC-870-5-101 + 104, LoRaWAN data injection and more on request
decentral I/O	WAGO-I/O-System 750, Siemens ET200 and more
other functions	PLC remote programming, text alerts (SMS), gateway, direct communication between devices
drivers for SCADA	OPC, OPC-UA, IEC-870-5-101/104, SQL-DB-Interface, more drivers on request
administration	complete remote configuration and settings via Baade "M2M-Manager"-Software
integrated functions	by user choice: FTP server, Web server, Telnet, long term data logger
service	log files, modem diagnosis, data volume monitoring, TCP/IP configuration
environmental conditions	operation: -20 to 70°C, humidity: 5 - 85% non condensing
power supply	10 - 30 VDC, about 3W (max 5W + USB device)
protection grade	IP20
ordering	M2M-4XCOM-TCP-LTE-10 incl. PLC-connections for S7-300/400/1200/1500, Modbus-RTU and Modbus -TCP, LTE-modem, external antenna with magnetic base and connection cables, more configurations on request
accessories	various antennas, power supplies, etc.

Specifications subject to change. For incorrect or omitted information in this document, no responsibility or liability is accepted.
All goods and services subject to the general delivery terms of Baade M2M-Products GmbH

Doc.No.: flyer_4xcom_en_Rev 1_0_240208 - Stand 06/2022 -

Please contact:

Baade M2M-Products GmbH, Koblenzer Str. 13, D-65582 Diez (Germany)

Telefon: +49 (0) 6432 / 6466467 Mail: info@baade-m2m.de