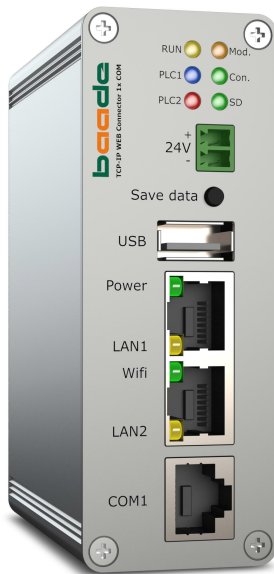


- **Smart Remote Controller and versatile Gateway** -
- **Proven technology- successfully used in the industry since 2004** -



• Typ 1xCOM

- low cost
- compact design
- flexible use in different applications
- secure - usable for CRITIS-Projects
 - VPN (IPsec, OpenVPN, WireGuard)
 - 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

- COM1 (RS232/RS485)
- 2 x LAN 10/100 Base-T, RJ45
- USB port
- Flash Memory >= 8 GByte
- opt. 24VDC condensor buffered power supply
- security chip for secure boot function
- shielded aluminum housing
- shielded aluminum housing, 35mm rail mounted

Software

- easy direct connection to former and current PLCs (S7-1200, Modbus-TCP/-RTU, OPC-UA)
- communication via TCP/IP protocol :
 - mobile phone networks (GPRS, EDGE, UMTS, LTE systems) with low budget M2M contracts and optimized internal data transfers
 - private or public PST lines, ADSL-/VDSL networks, intranet LAN/WLAN
- communication with SCADA systems and HMI systems via OPC-DA-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, Web and FTP servers, Telnet, text (SMS)
- secure connections via VPN(IPsec or OpenVPN) or SSL with certificates without the need for additional hardware
- redundancy capability already integrated in basic version
- configuration and settings via internal Web server or the Baade "M2M-Manager" software

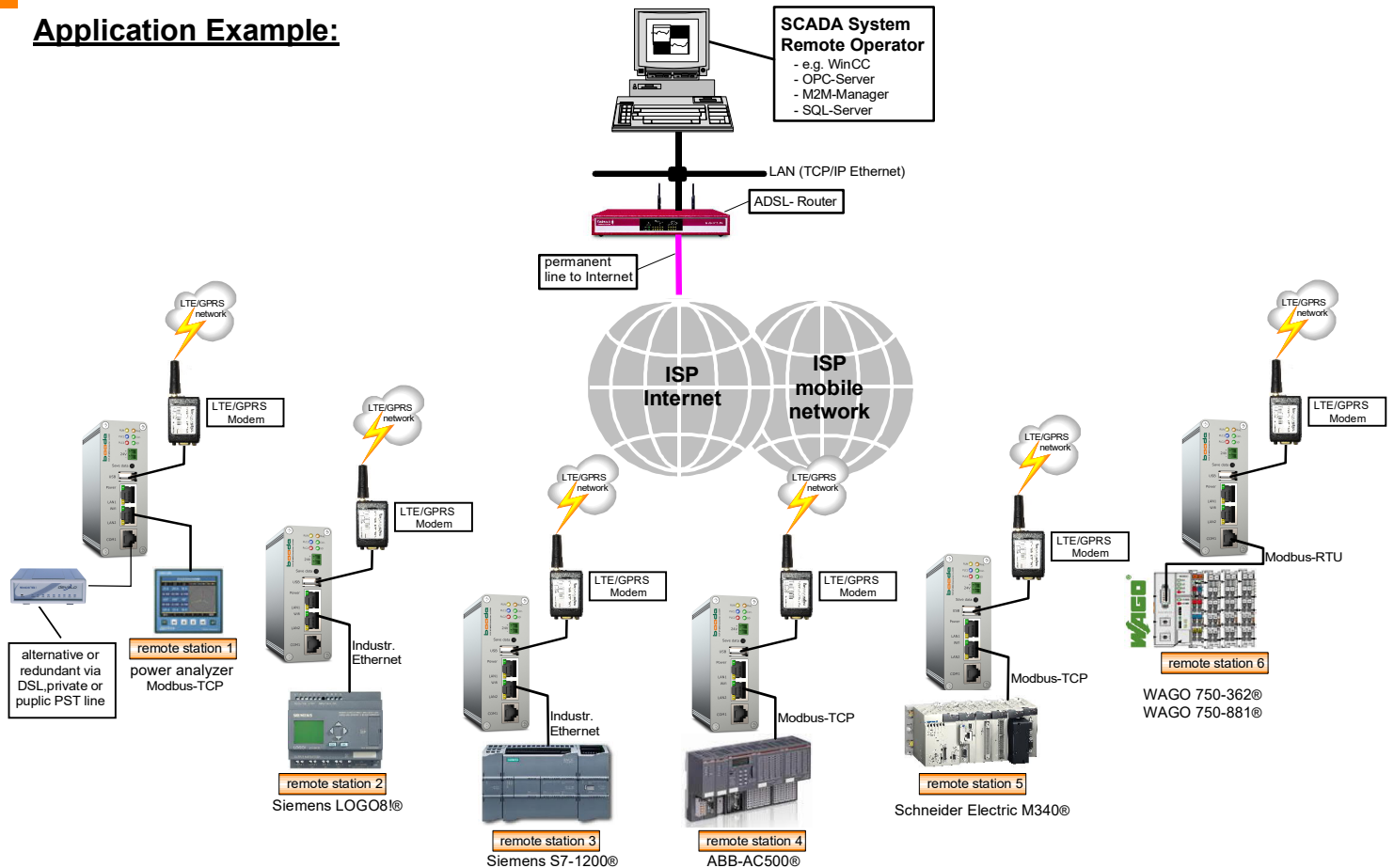
Applications

- 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:

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

Application Example:



Technical Data:

com ports	1 x RS232/RS485, 2 x Ethernet 10/100 Base-T (RJ45-socket), USB
hardware	MIPS-architecture, 128MB/32GByte, memory >= 8 GByte, div. diagnosis LEDs
dimensions	35mm rail mounted, aluminum housing, W40xH105xD85mm, weight: ca. 300g
connections	TCP/IP via GPRS, EDGE, LTE, ADSL, VDSL, LTE, etc.
software	connection management, data reduction, redundancy, mean value calculations, historical data buffering, VPN connections, SLL Connections with certificates
PLC drivers	S7-1200®, LOGO!®-Ethernet, Modbus-TCP with PLCs from ABB, Schneider Electric, WAGO, Beckhoff, Phoenix Contact, Eaton-EASY®, Modbus-RTU, RS232, LoRaWAN-Gateways and more on request
decentral I/O	<u>Options:</u> keys for expansion items/tags, S7-1500®, -MPI, -IEC-870, -OPC-UA connection
other functions	WAGO-I/O-System 750 and more
drivers for SCADA	PLC remote programming, text alerts (SMS), gateway, direct communication between devices
administration	OPC-DA, OPC-UA, SQL-DB-Interface more drivers on request
integrated functions	complete remote configuration and settings via Baade "M2M-Manager"-Software
service	FTP server, Web server, Telnet, long term data logger
environmental conditions	log files, modem diagnosis, data volume monitoring, device temp, TCP/IP configuration
power supply	operation: -20 to 70°C, humidity: 5 - 85% non condensing
protection grade	10 - 30 VDC, about 3W (max 5W + USB device)
order no	IP20
accessories	M2M-1XCOM-TCP-LTE10 for S7-1200®, Modbus, access to max.200 items/tags M2M-1XCOM-MAX-LTE10 for S7-1500®, OPC-UA, Modbus, no limit access to items/tags incl. LTE-Modem, external antenna with magnetic base, more configurations on request various antennas, power supplies, etc.

S7-300/400/1200/1500® + LOGO!® are registered trademarks of Siemens AG, München, Germany
AC500® is a registered trademark of ABB Asea Brown Boveri Ltd, Zürich, Switzerland
Modicon M340® is a registered trademark of Schneider Electric SE, Rueil Malmaison France
WAGO 750-362® + WAGO 750-881® is a registered trademark of WAGO Verwaltungsgesellschaft mbH, Minden

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