



BSC9150W

**SMART MODEM FOR
AMR / AMI / OSOS
SYSTEMS**

**DUAL / QUAD BAND GPRS
10/100MBit ETHERNET**

**DLMS/COSEM, IEC
62056-21 and MODBUS
SUPPORT**



BSC9150W

CUSTOMIZED SUPERIOR SOLUTIONS FOR SMART ELECTRIC METERS



- Contains an SMPS power source with impact resistance against 8000V mains power. Has fuse protection and harmonics filter within the power input. Due to having SMPS, it can easily run on both AC and DC grids.
- Meets all articles of EPDK/OSOS (AMR Systems) specifications both with hardware and software.
- Supports IEC62056-21 communication modes A/B/C and D. Baud switching support for Mode C is also presented. Moreover, DLMS/COSEM protocol support lies within the modem. Also has MODBUS/RTU and MODBUS/TCP (via Ethernet) protocol support for Network Analyzers and Quality Recorders.
- Equipped with two Half Duplex (two-wired) RS485 communication hardware. Thus it enables reading of more meters with a sole modem. Meanwhile under favour of these two ports, Network Analyzers and Meters can be controlled through different ports.
- Modem can run both in Server and Client modes, also can automatically introduce the identified meters to the AMI/AMR system upon connecting. It can inform the system automatically in case of events, and can update firmware remotely and automatically if identified in AMI/AMR server.
- By means of WEB Server feature, the modem can be reached from any internet access point, depending on permission level. Modem configuration can be changed, can be set to event tracing, an eleven tariff-load profile values can be read independent of AMR software.
- Due to data compression ability up to 75%, it reduces data transmission costs especially among systems of constant data flow demand and multi-meter connections gathered up in one modem.
- With its AES 128 bit encryption support, it provides a communication safety in its data transmission traffic between AMR system. The encryption system has a 1/10M possibility, and can be deactivated.
- As connection types; Dual Band GPRS, Quad Band GPRS, 10-100 Mbit Ethernet, Wifi (optional) can be selected. All meter communication protocols supported by the modem (IEC/DLMS/MODBUS) can run properly.



85-265V AC/DC
POWER INPUT



8000V GRID
IMPACT
RESISTANCE



DUAL/QUAD BAND
GPRS & 10/100Mbit
ETHERNET



ACCESS WITH
INTERNAL WEB
SERVER FROM ALL
LOCATION



EMI / EMC TEST
PERFORMED.
ALL CERTIFICATES
AVAILABLE





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BE THE ONE TO DETERMINE PROPERTIES OF YOUR MODEM UP DATE IT REMOTELY IF NEEDED



INTERNAL ASTRONOMICAL TIME RELAY



128 BIT AES CRYPTO



DATA COMPRESSION ALGORITHM



IP FILTERING WITH WHITE AND BLACK IP LIST



IEC 62056-21 MOD A/B/C/D , DLMS/COSEM , MODBUS RTU/TCP

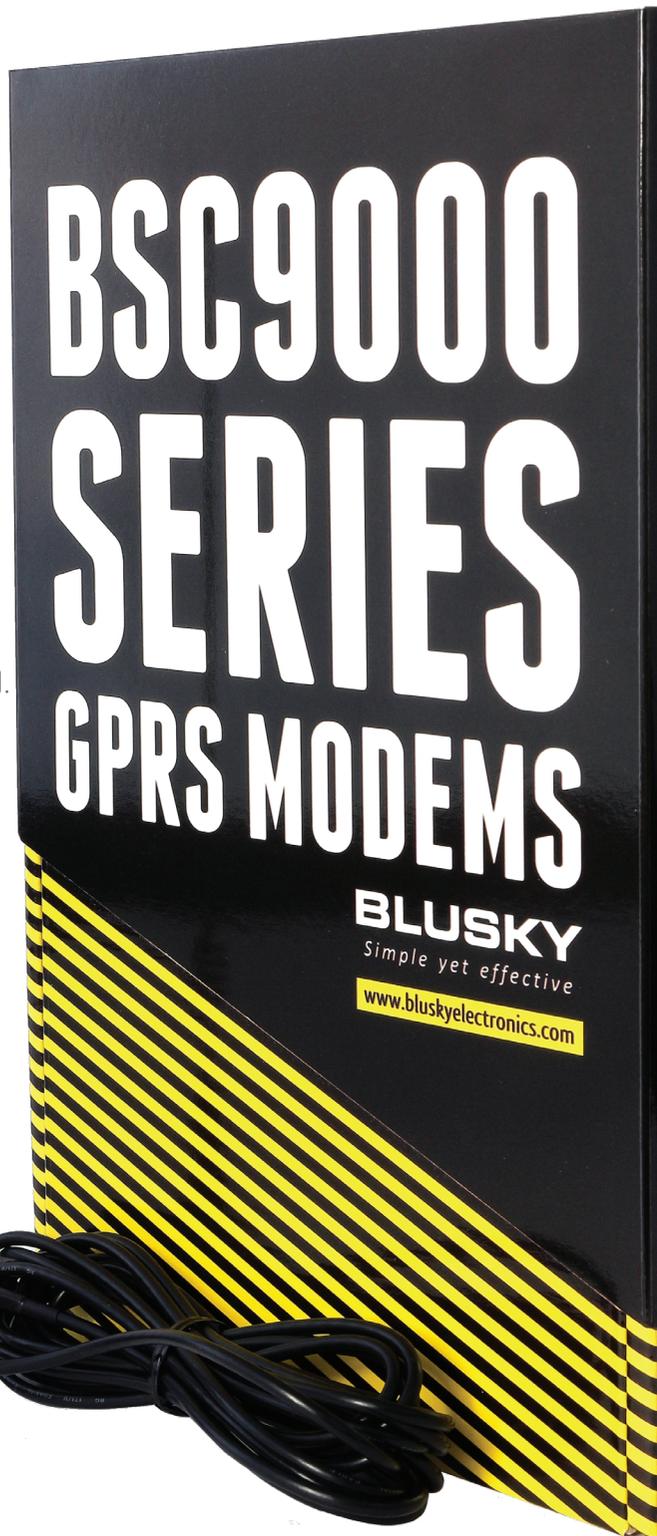


AUTOMATIC FIRMWARE UPDATE



LOG ALL EVENTS ABOUT MODEM

- Modem has an internal Astronomical Time Relay. With this relay, lighting meter solutions can be provided without needing an external hardware. This relay, relying on accuracy of its location's coordinates entry, can run determinately in anywhere around the globe.
- Modem has an internal Super Capacitor . Modem can sent a SMS or an e-mail when city power cut.
- Has additional security measurements such as ID validation, modification/tampering alert, whitelist and blacklist (IP restriction).
- Firmware update can be conducted on-site with USB and remotely with TCP/IP.
- Has two input ports with 5000V optical insulation and relay outputs of 5A or 10A.



TECHNICAL SPECS

FEEDING VOLTAGE	80 VAC - 265 VAC / 110 VDC - 350 VDC
MAX CURRENT	350mA
INSTANT CURRENT	2A (250mS)
NOMINAL RUNNING FREQUENCY	50 Hz
GPRS BAND	Dual Band(900/1800 Mhz) Quad Band (850/900/1800/1900 Mhz)
GPRS CLASS	Multislot - Class 12/10/8 - 1~12 Adjustable
RUNNING MODES	TCP Server or/and TCP Client
POWER INPUT IMPACT RESISTANCE	8000 V
COMMUNICATION INPUT INSULATION	8000 V
CONTROL INPUT INSULATION	5000 V
ETHERNET	10/100 Mbit
INTERNAL MEMORY	1128 Mbit / 16 Mbyte Nand Flash ROM
DIMENSIONS	164 mm X 118 mm / 38 mm
INPUT PORTS	2 Inputs with Optical Isolation / 9-60 VAC-DC
OUTPUTS	2 Outputs 250V/10A Relay
COMMUNICATION PROTOCOL SUPPORTS	300 Baud - 115.200 Baud / 7E1/8N1 Transparent Mod IEC62056-21 ModA/ModC/ModD/ Electricity Meter Protocols DLMS/COSEM MODBUS RTU/MODBUS TCP
INDUSTRIAL COMMUNICATION PORTS	2 Ports RS485 Half Duplex 300 Baud - 115.200 Baud
PC COMMUNICATION PORTS	USB 2.0 / 12 Mbit / USB Mini Connector
TEMPERATURE RANGE	Operating Temperature : -30C +70C Storage Temperature : -40C + 80C Humidity : 0 %... 96 %
PROTECTION CLASS	IP 51 / Plastic ABS
WEIGHT	~400gr
CONFIG SOFTWARE / METHOD	On-site with USB 2.0 and TROLL Configuration Software or remotely with WEB Server Configuration Menu Access
FIRMWARE UPDATE	On-site with USB or remotely with TCP/IP

