

# BSC9220

▶ GPRS MODEM FOR  
AMI/AMR/M2M SOLUTIONS

▶ QUAD BAND  
85-265VAC POWER INPUT

▶ ECONOMICAL SOLUTION  
REMOTE FIRMWARE UPDATE



# BSC9220

## 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 AMI/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.
- Equipped with one Half Duplex (two-wired) RS485 communication hardware. Thus it enables reading of more meters with a sole modem.
- It can inform the system automatically in case of events, and can update firmware remotely and automatically if identified in AMI/AMR server.
- Any configuration changes can be performed by using software of TROLL. If needed, modem can be restarted remotely or can be totally turned off for usage.
- 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.
- Modem has 2 inlet ports that can withstand 7500V isolation value. These ports are compatible with standard 9-60VAC/DC input support. Depends on the demand, these ports can be manufactured to be compatible with 48-240VAC/DC support.
- By the definition of whitelist and forbidden list, IP restriction is available and there is no number limitation about number of white or forbidden IP addresses.
- The modem provides continuous information flow to users by using SMS management. Modem can also monitor all process and record all wrong cases for period of 2 years. These recorded data can be reached and monitored remotely by users.



**85-265VAC  
POWER INPUT**



**QUAD BAND**



**8000 V SURGE  
PROTECTED**



**FIRMWARE  
UPDATE  
REMOTELY**



**EMI / EMC TEST  
PERFORMED**



# BSC9220

BE THE ONE TO  
PROPERTIES  
OF YOUR MODEM  
REMOTELY IF  
NEEDED

DETERMINE  
UPDATE IT



- Available 6 different colours leds on modem. Monitoring signal level, power status ,communication status by using leds.
- Remote or close accessing to log book and error records up to 2 years by the help of improve logging property.
- By using technology of modem updating remotely or closely , being always up to date.
- Be informed about any changes in input and output ports by using improved SMS management.
- The most economical solution is needed at many points of the remote communication
- Works and communicates with meters in accordance with IEC 62056-21 by using Auto Baud Switch.
- Self-reset during the loss of communication by using configurable reset time.
- RS-485 2 wires port for surge voltage protection
- Implementation with 35 mm DIN RAIL or screw connection



# TECHNICAL SPECS

<b>FEEDING VOLTAGE</b>	85-265 VAC
<b>MAX CURRENT</b>	250mA
<b>INSTANT CURRENT</b>	2 Amper
<b>NOMINAL RUNNING FREQUENCY</b>	50 Hz
<b>GPRS BAND</b>	Quad Band (850/900/1800/1900 Mhz)
<b>GPRS CLASS</b>	Multislot - Class 12
<b>RUNNING MODES</b>	TCP Server
<b>POWER INPUT IMPACT RESISTANCE</b>	8000V
<b>COMMUNICATION INPUT INSULATION</b>	5000V
<b>CONTROL INPUT INSULATION</b>	-
<b>ETHERNET</b>	-
<b>INTERNAL MEMORY</b>	10 Mbyte
<b>DIMENSIONS</b>	35 x 90 x 59 mm
<b>INPUT PORTS</b>	-
<b>OUTPUTS</b>	-
<b>COMMUNICATION PROTOCOL SUPPORTS</b>	300 - 115.200 Baud 7E1 / 8N1 / Transparent Communication Mode IEC 62056-21 ModA/ModA/ModC/ModD DLMS/COSEM
<b>INDUSTRIAL COMMUNICATION PORTS</b>	MOD-BUS RTU RS-485 Port with 2 Wires / 300-115.200 Baud
<b>PC COMMUNICATION PORTS</b>	USB 2.0 / 12 Mbit / USB Micro Connector
<b>TEMPERATURE RANGE</b>	Operating Temperature : -30 C ..... +70 C Storage Temperature : -40 C .... +80 C Humidity : 0 -96 % , Noncondensing Humidity
<b>PROTECTION CLASS</b>	IP 51 / Material ABS
<b>WEIGHT</b>	250 Gr.
<b>CONFIG SOFTWARE / METHOD</b>	Configuring by Close Connection with USB 2.0 and TROLL , Configuring by remote Connection with TCP /IP ve TROLL
<b>FIRMWARE UPDATE</b>	Updating by Close Connection with USB 2.0 , Updating by Remote Connection with TCP /IP
<b>MOUNTING TYPE</b>	35 mm DIN RAIL or Screw Connection

