

BLU

CELLUAR MODEM FOR AMR

C3

2G 3G



2G AMI & AMR MODEM
QUAD BAND GSM/GPRS



3G AMI & AMR MODEM
GSM/GPRS/EDGE/HSDPA/HSUPA

USB 2.0 MICRO USB PORT
50 - 465VAC POWER RAITING
9 -36VDC POWER OPTION
FIRMWARE UPDATE REMOTELY
2 RS485 & 1 RS232 COM. PORT
3 OPTICAL ISOLATED INPUTS & 2 RELAY OUTPUTS



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SCALE1:1



CUSTOMIZED SUPERIOR SOLUTIONS FOR SMART ELECTRICITY METERS

- Contains an SMPS power source with impact resistance against 6000V 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. 9-36VDC Power Option is available.
- Meets all articles of Turkey Energy Corporation (EPDK) AMR Systems specifications both with hardware and software.
- Supports IEC62056-21 communication modes A/C and D. Baud switching support for Mode C is also presented. Moreover, DLMS/COSEM protocol support lies within the modem. Provides MODBUS / RTU protocol support for Network Analyzers and Energy Quality Loggers.
- Equipped with two RS485 and one RS232 communication hardware. Thus it enables reading of more meters with a sole modem.
- Modem firmware updates can be performed remotely manually or automatically. In places where 3G & GPRS is not available, the modem can be controlled via SMS.
- Any configuration changes can be performed by using TROLL Software. If needed, modem can be restarted remotely or can be totally turned off for usage.
- With its AES 128 / 256 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 3 input ports that can withstand 3500V isolation value. These ports are compatible with standard 9-60VAC/DC input support.
- There are 2 pieces 10A Relay outputs on the modem.
- With the sealable terminal cover, unwanted accesses can be prevented.
- 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.
- With the Super Capacitor option you can follow energy interruptions and re-energizations.
- Transparent and Smart Communication Mode support to work with many software protocols
- Push / Pull Mode Operation Capability
- Communication with Electricity & Water & Natural Gas & Wastewater Meters & Other Energy Quality Devices



**50-465VAC
POWER RATING**



**2G : GSM/GPRS
3G : GPRS/EGDE
HSDPA/HSUPA**



**6000 V SURGE
PROTECTED**



**FIRMWARE
UPDATE
REMOTELY**



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MINI SIM CARD OR EMBEDDED SIM

CUSTOMIZABLE INPUT & OUTPUTS

OPTICAL PROBE CAN BE CONNECTED

- Available 11 different colours leds on modem. Monitoring signal level, power status ,communication status and error by using leds.
- Thanks to advanced logging feature, Status, Running Logs and Error Logs can be accessed remotely and closely up to past 2 years.
- 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.
- Being compatible with Turkish Electric Corporation AMR Specs. Additionally working with super capacitor.
- 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 (15KV)
- Implementation with 35 mm DIN RAIL or screw connection.



TECHNICAL SPECS

	BLU C3 /2G	BLU C3 /3G
FEEDING VOLTAGE	50-465 VAC (9-36VDC OPTIONAL)	
INSTANT CURRENT	250 mA	
MAX CURRENT	2 Amp.	
RUNNING FREQUENCY	50 / 60 Hz	
RF BAND	Quad Band : 850/900/1800/1900	WCDMA:850/900/1900/2100
	GSM/GPRS Multislot - Class 12	GSM: 850 / 900 /1800 /1900
DATA	GSM/GPRS	GSM/GPRS/EDGE/HSDPA/HSUPA
RUNNING MODES	TCP CLIENT (PUSH) / TCP SERVER (PULL)	
POWER INPUT IMPULSE RESISTANCE	6KV	
COMMUNICATION PORTS ISOLATION	15KV	
CONTROL INPUT ISOLATION	3500V	
INTERNAL MEMORY	1-10 Mbyte	
DIMENSIONS	124 x 84 x46 mm (Length x Width x Depth - Terminal Cover Included)	
INPUT PORTS	3 Optical Isolated Inputs	
OUTPUTS	2 250V/10A Relay Outputs	
COMMUNICATION PROTOCOL SUPPORTS	300 - 115.200 Baud 7E1 / 8N1 / Transparent Mod	
	IEC 62056-21 ModA/ModC/ModD	
	DLMS/COSEM	
INDUSTRIAL COMMUNICATION PORTS	MOD-BUS RTU	
	2 RS-485 Port , 1 RS 232 Port (optional)	
PC COMMUNICATION PORTS	300-115.200 Baud	
TEMPERATURE RANGE	USB 2.0 / 12 Mbit / USB Micro	
	Running Temp. : -30 C +70 C (-40 C +80 C optional)	
	Storage Temp. : -40 C +80 C	
PROTECTION CLASS	Humidity : 0 -96 %	
	IP 54 / Material : ABS+PC	
WEIGHT	300 gr.	
CONFIG SOFTWARE / METHOD	Configuring by Close Connection with USB 2.0 and TROLL ,	
FIRMWARE UPDATE	Configuring by remote Connection with TCP /IP ve TROLL	
MOUNTING TYPE	Updating with USB 2.0 & Remote Connection with TCP /IP	
	35 mm DIN RAIL or Screw Connection	



BLUSKY
Simple yet effective

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