TECHNICAL SPECIFICATION

ATREYO®
SOLUTIONS THAT SIMPLIFY

RS232 Gateway with data logger and LTE / GSM	AG-802

Features

- LTE and GSM connectivity
- Opto-isolated RS232
- 2 opto-isolated digital inputs
- GNSS for accurate time and location
- Internal website for configuration
- LAN with PoE
- Aluminium compact size casing
- DIN rail mounting

The AG-802 is a RS232 Gateway dedicated to send RS232 data to server. It support two-way communication with server. by LTE/GSM and limited on Ethernet. AG-802 can be configured by: internal website, SMS, string from server and configuration file loaded in predefine URL.

The AG-802 has advance alert option with 10 mobile number list for SMS alerts. In SC model there is power loss alert facility.

Description	Parameter
Serial Interface	
Interface Type	RS232
Data Rate	1200bps ~ 25600bps
Signals	Data IN, data OUT (RX and TX)
Data Length	7, 8 bits
Parity	Odd, Even, None
Stop Bits	1, 1.5, 2
Flow Control	None
Connector	Pluggable screw socket
Protection	Opto-isolated 2.5kV RMS per UL 1577
	IEC 61000-4-2 level 4: – 15 kV (air discharge) – 8 kV (contact discharge)
LTE/GSM Interface	
Band LTE FTD	B1/B3/B5/B8
Band LTE TDD	B34/B38/B39/B40/B41
Band GSM	900/1800MHz
GPRS Slot	Multi-slot class 12/10

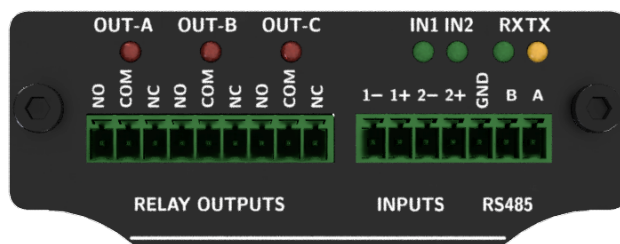| Description	Parameter
Link	GPRS class 12: max. 85.6 kbps (downlink/uplink)
Power	Compliant to GSM phase 2/2+ – Class 4 (2 W 900MHz) – Class 1 (1 W 1800MHz)
SIM card	MicroSIM, push-pull type holder 3V/1.8V
Antenna Connector	SMA female
GNSS	
GNSS Systems	GPS, BAIDOU
Ethernet	
Number	1
Type	10/100M port
PoE	PoE class A (spare pare)
Data to Server Protocol	
Protocol type	TCP/IP and JSON
Authorisation	By authorisation key
Communication type	Dual way by TCP/IP

Description	Parameter
	MQTT (under development)
	One way in JSON (Gateway to server)
Encryption support	SSL on LTE and GSM, (TLS1.2)

Digital Inputs	
Input number	2
Input type	Opto-isolated 2.5kV
Configuration	Separate IN-GND
Connector	Pluggable screw socket

System Functions Indicators	
Indicators	PWR – power indicator
	ACT – activity
	TXD – data indicator
	RXD – data indicator
	Digital output indicators
	4 LED Signal strength

Configuration and System	
Configuration method	SMS specific commands
	Internal website
	String from TCP/IP server
	Remote or local configuration file
Access authorisation	Password protection
Serial string length	64 signs
String memory buffer	64 strings
Input event memory	128 events
System protection	Watchdog
OS support	Any latest internet browser

Power Supply	
Connector	3 pin (+, -, earthing) Pluggable screw socket
Power Voltage range	10-36V DC (12-36 in BAT models)
Power consumption	3W average
Protection	Reverse polarity
	Over voltage

SuperCAP backup[1]	
Backup time	30 second
Charging time	10 minute (approx)

Physical Characteristics	
Installation	DIN-Rail
Housing	Aluminium
Weight	~ 0.5kg
Dimensions	88mm x 86mm x 34mm

Environmental Specification	
Operating Temp.	-25 ~ 75°C (-13 ~ 167°F)

Description	Parameter
Storage Temp.	-40 ~ 85°C (-40 ~ 185°F)
Ambient RH	5% to 95% (non-condensing)

1 Selected SC models only

Ordering model selection chart

Models	Hardware Options		
Model	Mobile		Backup
AG-802	GPRS	LTE	SuperCAP
AG-802-LT	√	√	
AG-802-LT-SC	√	√	√

Disclaimer

- All dimensions mentioned in the drawings are not to scale and may vary/differ due to construction contingencies and site conditions which are subject to change as may be decided by the company.
- The specifications and amenities mentioned in this document and promotional documents are only representational and informative. The descriptions in this specification are based on the default configuration of your device.
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