



## Features

- LTE + GSM and Ethernet connectivity
- Opto-isolated RS232
- USB for data storage
- 2 digital inputs with SMS alert option
- Inbuilt website for configuration
- Configuration by SMS, website or server
- Support PoE
- Wide power supply range
- GSM signal strength level indicator
- RX/TX indicators
- TCP/IP and JSON string format
- Modbus data archive in internal memory
- DIN rail mounting

The AG-822 is a RS232 Gateway dedicated to send data to server by LTE/GSM and limited functions on Ethernet. AG-822 can be configured by: internal website, SMS, string from server and configuration file loaded in predefine URL.

The AG-822 has alert option with 10 mobile number list for SMS alerts. In SC model there is power loss alert facility.

Description	Parameter
<b>Serial interface</b>	
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
	IIEC 61000-4-2 level 4:
	- 15 kV (air discharge) - 8 kV (contact discharge)
<b>Cellular interface<sup>1</sup></b>	
LTE band FDD	B1/ B3/ B5/ B7/ B8

Description	Parameter
<b>Cellular interface</b>	
LTE band TDD	B34/B38/B39/B40/B41
GSM band	Dual-band 900/1800MHz
Slot	GPRS multi-slot class 12/10
Link	LTE FDD: Max 10Mbps/5Mbps
	LTE-TDD: Max. 8.96Mbps/3.1 Mbps
Power	GPRS: Max 107Kbps/85.6Kbps (downlink/uplink max)
	Compliant to GSM phase 2/2+
	- Class 3 (23dBm±2dB) for LTE - Class 4 (2 W 900MHz) - Class 1 (1 W 1900MHz)
SIM card	MicroSIM, push-pull type holder 3V/1.8V
Antenna connector	SMA female

<sup>1</sup> LTE/GSM Bands are mentioned for IN version of LTE modem. For EU and GL please contact support.

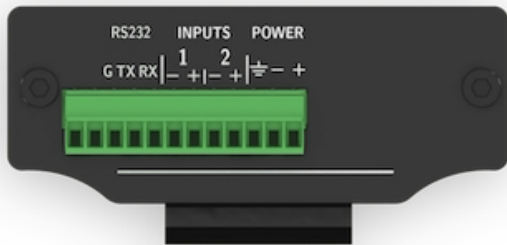
Description	Parameter
<b>Ethernet<sup>2</sup></b>	
Number	1
Type	10/100M ports
PoE	PoE (spare pare)
<b>Data to Server Protocol</b>	
Protocol type	TCP/IP
Authorisation	By authorisation key
Communication type	Dual way by TCP/IP
Encryption support	SSL on LTE and GSM, (TLS1.2)
<b>Digital inputs</b>	
Input number	2
Input type	Opto-isolated 2.5kV
Voltage range	30V <sub>max</sub>
High level	4.5V to V <sub>max</sub>
Configuration	Separate IN-GND
Connector	Pluggable screw socket
<b>System functions indicators</b>	
Indicators	PWR – power indicator
	ACT – activity
	TXD – data indicator
	RXD – data indicator
	LTE – network status
	GSM level indicator in 4 LED
	Digital input active indicator
<b>Software support</b>	
OS support	Any latest internet browser for configuration
<b>Power supply</b>	
Connector	Pluggable screw socket
Power Voltage range	8-36V DC
Power consumption	3W average
Protection	Reverse polarity
	Over Voltage
<b>SuperCAP backup<sup>3</sup></b>	
Backup time	30 second
Charging time	10 minute (approx)
<b>Physical characteristics</b>	
Installation	DIN-Rail
Housing	Aluminium
Weight	240g
Dimensions (W x H x D)	88mm x 35mm x 87mm
<b>Environmental specification</b>	
Operating temp.	-25 ~ 75°C (-13 ~ 167°F)
Storage temp.	-40 ~ 85°C (-40 ~ 185°F)

<sup>2</sup> On Ethernet SSL is not available in current firmware

<sup>3</sup> Selected SC models only

Description	Parameter
<b>Environmental specification</b>	
Ambient RH	5% to 95% (non-condensing)

# Gateway



### Selected model list

Models	Hardware Options	
A-821	Mobile	Backup
	LTE	SuperCAP
AG-822-LT-IN	√	
AG-822-LT-EU	√	
AG-822-LT-GL	√	
AG-822-LT-IN-SC	√	√
AG-822-LT-EU-SC	√	√
AG-822-LT-GL-SC	√	√

### Table with model structure for ordering

Model structure			
Model structure example	AG	822	LT- EU- SC
<b>Base model name</b>			
AG-822			
<b>Cellular communication modem</b>			
LT (LTE communication module present)			
<b>LTE/GSM module regional information</b>			
IN (certification of LTE module for India)			
EU (certification of LTE module for Europe)			
GL (global certification of LTE module)			
<b>SuperCAP backup</b>			
SC (for last message on power loss)			

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