TECHNICAL SPECIFICATION

ATREYO®
SOLUTIONS THAT SIMPLIFY

Modbus LTE Gateway

AG-201



Features

- **4G LTE and GSM connectivity**
- **RS485 with Modbus RTU support**
- **Server communication via MQTT**
- **Aluminium compact size casing**
- **Windows PC software for configuration**
- **Wide power supply range up to 36V**
- **DIN rail mounting**

AG-201 stands as the basic Modbus RTU gateway for users seeking 4G LTE connectivity for their custom applications. This gateway features both RS485 and LTE/GPRS communication capabilities, complete with SMS support. AG-201 ensures bidirectional connectivity, enabling Modbus RTU data exchange with the cloud with MQTT.

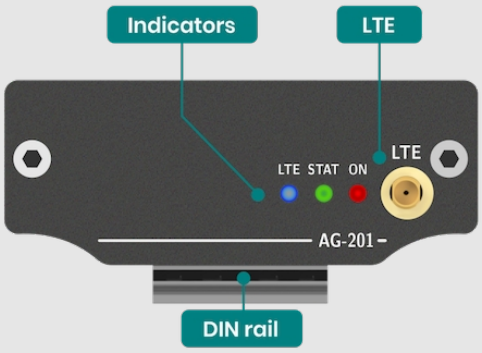
Description	Parameter
Processor	
Type	Cortex-A5
Clock	500MHz
RAM memory	
Memory size	16MB
Serial interface	
Port number	1
Interface type	RS485
Data Rate	2400kbps to 921600
Signals	A and B
Connector	Pluggable screw type
Protection	IEC 61000-4-2 level 4: – 15 kV (air discharge) – 8 kV (contact discharge)

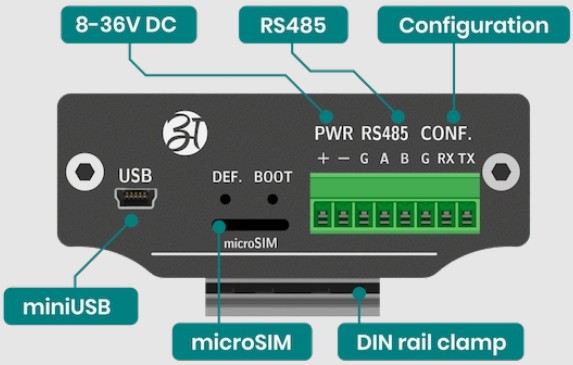
Description	Parameter
Cellular modem	
Band	Please refer table of cellular network on page 3 and 4.
SIM card	1x MicroSIM, push-pull type holder
	3V/1.8V
Antenna connector	SMA female
System functions indicators	
Indicators	ACT – activity
	NET status
	Power
Configuration	
Configuration method	Windows PC application by UART

Description	Parameter
Power supply	
Power supply	8-36V
Power consumption	3W average (24V)
Connector	Pluggable screw (+, -, earthing)
Protection	Reverse polarity, over voltage
Physical characteristics	
Installation	DIN-Rail, clamp
Housing	Aluminium
Weight	175g (without DIN rail clamp)
Dimensions	88mm x 64mm x 35mm

Description	Parameter
Environmental specification	
Operating temp.	-25 ~ 75°C (-13 ~ 167°F)
Storage temp.	-40 ~ 85°C (-40 ~ 185°F)
Ambient RH	5% ~ 95% (non-condensing)

Gateway





Cellular modem specification of IN (India) version

Bands	Cellular network modem details	
Band LTE FTD	B1/ 3/ 5/ 8	
Band LTE TDD	B34/ 38/ 39/ 40/ 41	
Band GSM	B3/ 8 (900/1800MHz)	
GPRS slot	Multi-slot class 12/10	
Bandwidth	1.4/ 3/ 5/ 10/ 15/ 20 MHz	
Output power	LTE-FDD	Class 3 (23 dBm ±2 dB)
	LTE-TDD	Class 3 (23 dBm ±2 dB)
	EGSM900	Class 4 (33 dBm ±2 dB)
	DCS1800	Class 1 (30 dBm ±2 dB)
Maximum data rate	LTE-FDD	10 Mbps (DL), 5 Mbps (UL)
	LTE-TDD	8.96 Mbps (DL), 3.1 Mbps (UL)
	GPRS	85.6 Kbps (DL), 85.6 Kbps (UL)

Standard model list

These are models in regular production. Other models are only made on order with a minimum order quantity. Please contact us if you require a custom order.

Model	Hardware Options					
AG-201	**Cellular Network**			**GNSS**	**Supply Voltage**	**More information**
	GPRS	**3G**	**LTE**			
AG-221					8-36V	
AG-221-GP	✓		✓	✓	8-36V	

Standard package list

1 AG-201 Gateway
2 Cellular antenna
3 DIN rail clamp with screws
4 Female 8 pin main connector without cable

Please note: The set does not include a power supply.

For more details scan or click on QR code

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