

General information

Download technical specification	Technical Specification
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Model selection

Different Gateway models are available depending on the periphery availability and type.

Model	Cellular Network				GNSS	Internal memory	
	GPRS	3G	LTR 4G	5G		Flash 64MB	NAND 512MB
AG-221						✓	✓
AG-221-LT-EU	✓		✓		✓	✓	✓
AG-221-LT-GL	✓	✓	✓		✓	✓	✓

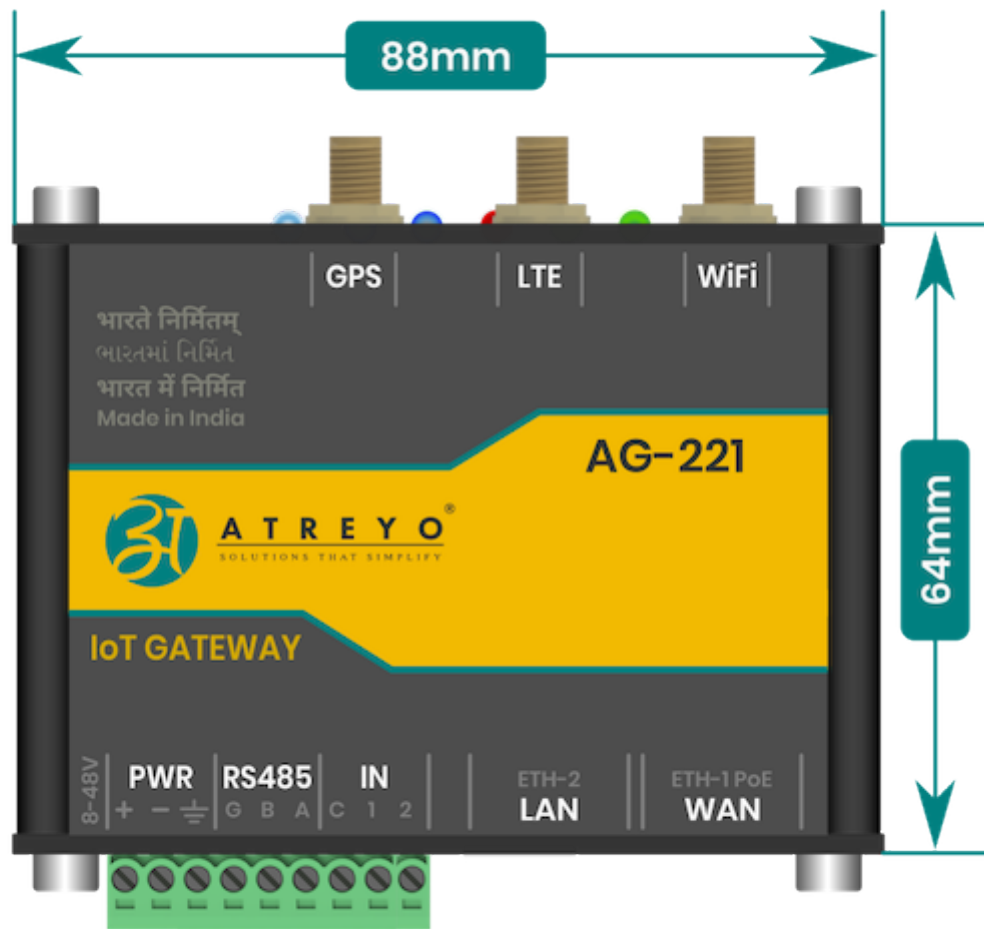
AG-207 is the basic variant of this model. Has a no cellular module.

Hardware informations

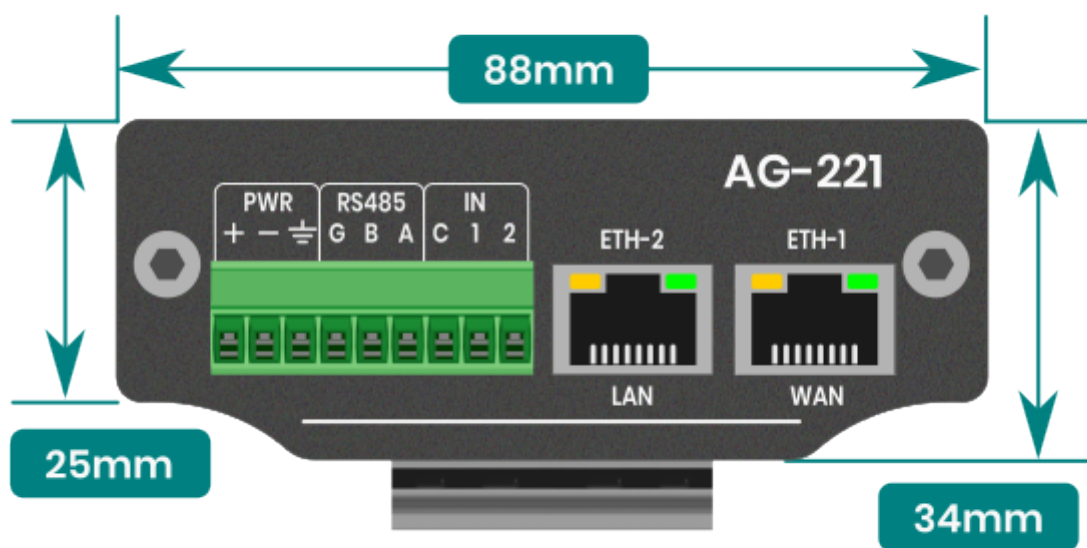
The Gateway is made on one PCB, which is fitted to the aluminum housing. The housing is made of a thick, strong aluminum profile with two end plates also made from aluminum. The surface of the housing is finished by anodizing.

At the bottom of the housing there are slots through which DIN rail clamp or any other clamp can be mounted by t-nuts.

Top view dimensions

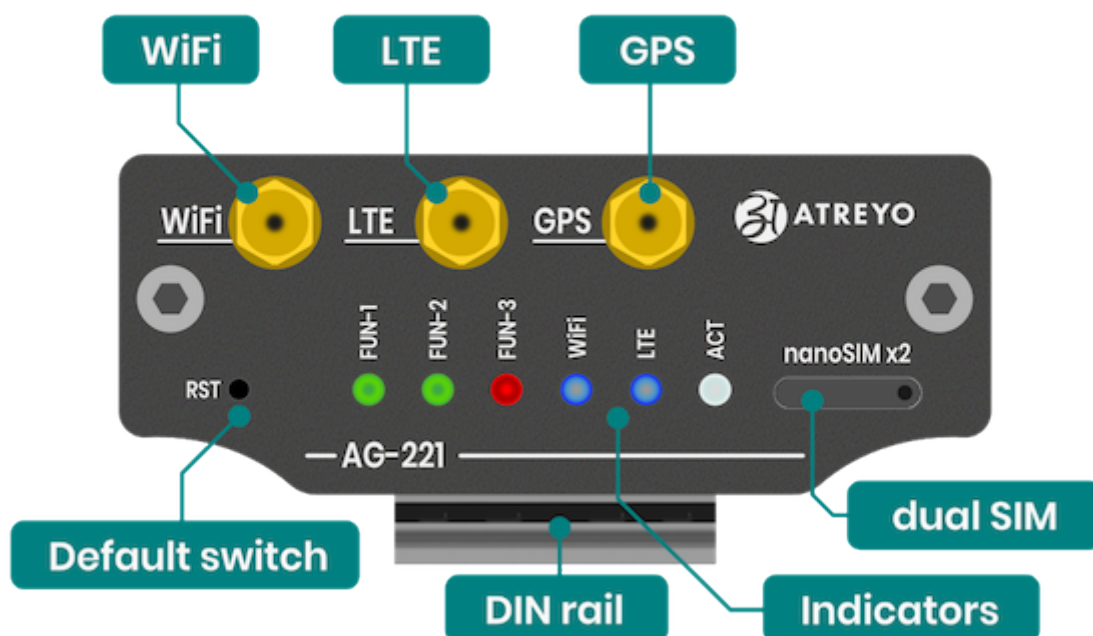


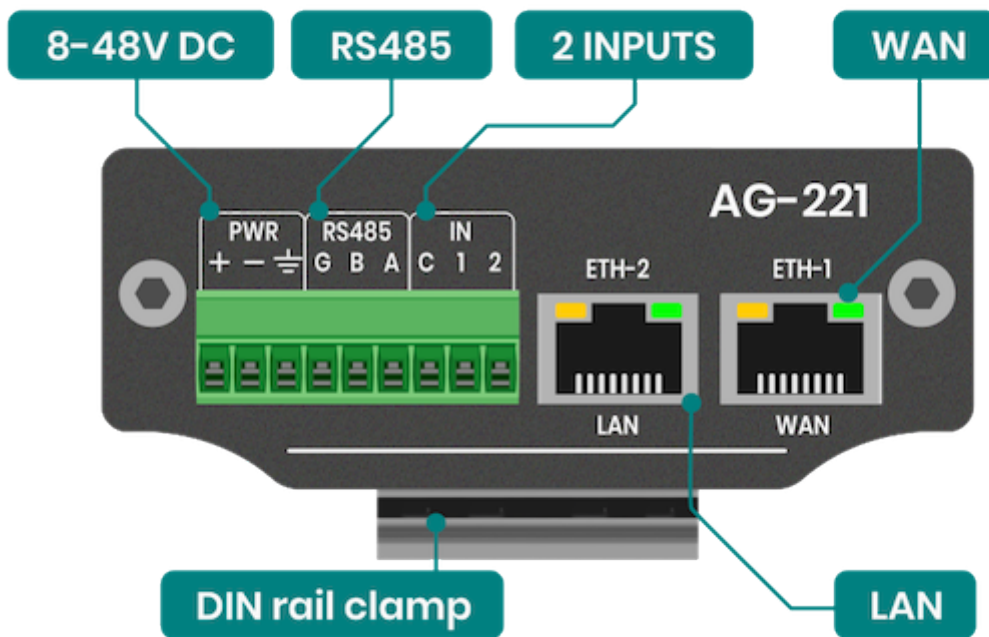
Side view dimensions



Connectors

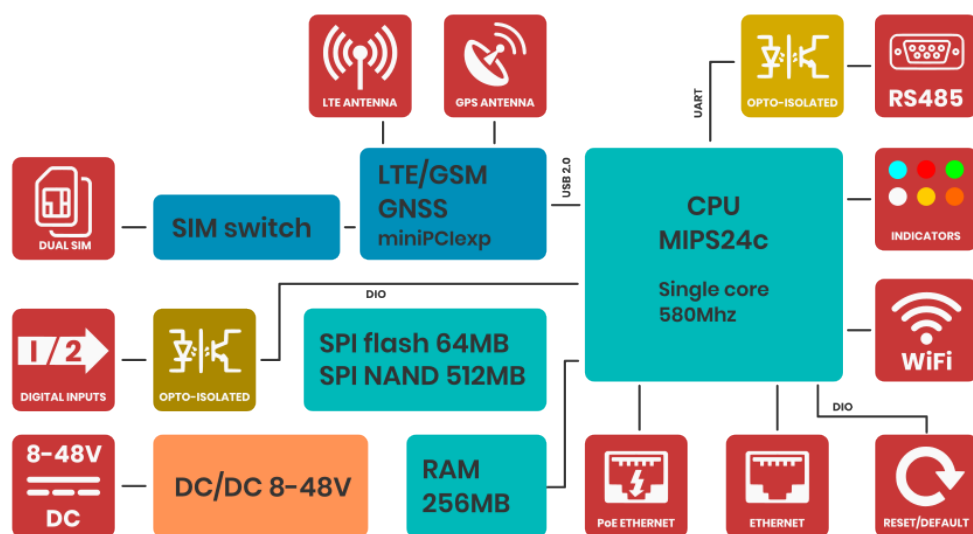
Top view connectors and indicators





Block diagram

For a better understanding of the operation of the gateway, refer to the block diagram. Non-essential components have been omitted. Developers who program peripherals such as GPIOs, serial etc. will find information about them in the sections dedicated to such peripherals.



Power supply

The Gateway power supply range is 8-48V DC. First, connect the power supply according to the diagram. The Gateway is protected against reverse power connection. If the polarity is reversed, the Gateway will not start.

PoE

The Gateway can also be powered via PoE in the range of input power supply using unused pairs of wires in the LAN cable. Below is the pinout of the RJ45 socket.

Pin number	Function	Comment
1	RX+	Data
2	RX-	Data
3	TX+	Data
4	DC+	Power supply positive
5	DC+	Power supply positive
6	TX-	Data
7	DC-	Power supply negative
8	DC-	Power supply negative

LTE 4G modem

Generally, the Gateway supports all versions of Quectel and Telit MiniPCI express modems. However, you can use a third-party modem, as long as the signal outputs are compatible with those of the Quectel company. For use your LTE module, select model without LTE module installed. You also need to pay attention to the power supply to the LTE module should be 3.3V.
