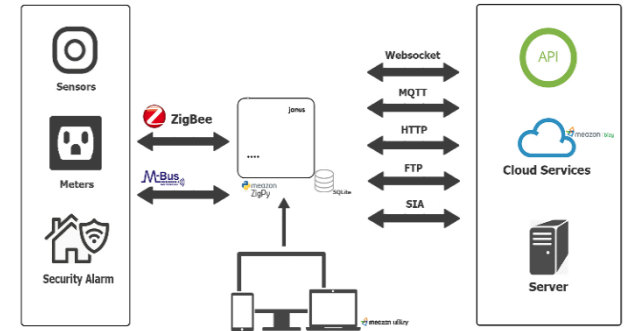




A Linux-based, small form factor appliance for provisioning, aggregating and backhauling data from Meazon’s metering and sensor devices to online Meazon’s Cloud Gateway service over Ethernet. Thanks to the user-friendly provisioning web application UI, minimal configuration effort is required even for large scale deployments.

Janus provides uBizzy, an HTTP User Interface commissioning tool for real-time monitoring. Full control of the ZigBee network is also possible including adding, removing and configuring devices plus capability of configuring Janus’s network parameters. The Gateway, supports NodeRed which is a Rule-Based decision-making system.



Meazon “Janus” Gateway

Meazon Janus (in ancient Roman religion is the god of beginnings, gates, transitions, time, doorways, passages and endings) is equipped with a powerful Sitara ARM Cortex-A8 at 1GHz and 512MB DDR3. Its storage capacity comes at 4GB embedded MMC and works with a state-of-the-art Ubuntu Linux distribution.

Network-time synchronization is available, and even when not, a Battery-Powered Real Time Clock certifies accuracy of measurement/event timestamps. The Gateway is capable of transmitting control and data messages throughout the Zigbee network, which in turn can be monitored using a variety of provided IP-based protocols, such as MQTT, FTP, Websocket or HTTP(s). The monitored data reported by the Zigbee sensors (i.e. meter & sensor data, sensor events/alerts), can be stored in a local SQLite database which then can be exported in CSV file format. Janus has a versatile Python platform, developed by Meazon, to connect Zigbee to TCP/IP-like protocols. This service called ZigPy has a modular design which makes it easily extendable. Janus is also designed to facilitate automation of DR (Demand/Response) events using the OpenADR2.0 (Profile A,B) model, whether it involves electric load shedding or load shifting.

	Feature
Processor	1 GHz ARM Cortex-A8
Memory	512MB DDR3
USB 2.0 ports	2 x USB 2.0 type A host port, mini-USB 2.0 client port
Onboard storage	4 GB embedded MMC, microSD card
Network interfaces	10/100 RJ45, ZigBee
ZigBee	Home Automation 1.2
Protocol interfaces	MQTT, HTTP, WebSocket, FTP, openADR 2.0, SIA DC-09, NodeRed
OSS applications	ZigPy, uBizzy, NodeRed, SNMP
Power source	5.5mm/2.1mm Barrel connector, 5V@2A
Size	118 x 118 x 27 mm