PRODUCT



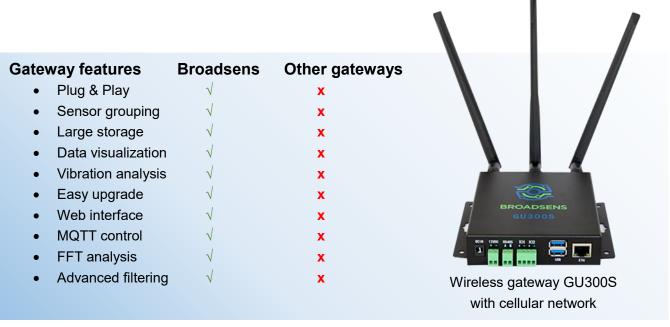
Broadsens edge-computing wireless gateways connect and control multiple wireless low-power sensors such as SVT200-A, SVT300-A, SVT400-A, SVT200-V, SVT300-V and SVT400-V. The gateways include 4-core ARM processor for real-time data visualization and processing. It integrates a time-series database InfluxDB for data review and export. Vibration analysis software BroadVibra<sup>TM</sup> is installed at the gateway for time-domain and frequency domain vibration analysis. Data can be transferred to user's clouds or servers via MQTT protocol. The gateway can be accessed with a web browser, so there is no software installation required and it is ready to use with the sensors immediately.

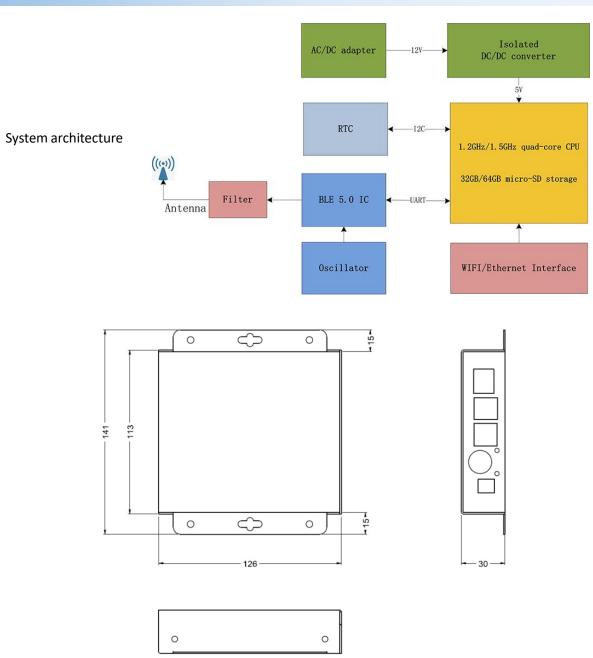


Wireless gateway GU300

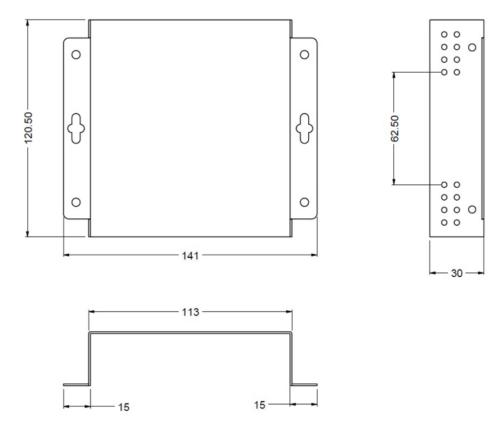
Models	GU200S	GU300	GU300S
Processor	1.5GHz quad-core 64-bit ARM CPU		
Memory	2GB, 4GB or 8GB		
Data storage	32 GB or 64 GB	64GB or 128GB	
Communication with	2.4GHz Bluetooth low energy with Adaptive Frequency Hop (AFH) technology, AES 128-bit		
sensor	encryption, EIRP up to 20dBm, up to 0.1w		
Network interface	Fast Ethernet, dual-band 802.11ac wireless		
Sensor support	Up to 190 (60 SVT-A, 30 SVT-V, and 100 SVT-T sensors)		
Operating system	Linux Debian 64-bit		
Software interface	BroadVibra software based on Node-RED		
Communication	MQTT, TCP/IP, UDP,	MQTT, TCP/IP, UDP, Modbus TCP & RTU, OPC UA	
protocol	Modbus TCP, OPC UA		
FCC/IC	FCC: X8WBT840X; IC: 4100A-BT840X; CE, RCM: Compliant		
Vibration analysis	Velocity, RMS, True peak, Peak-peak, STD, Crest factor, Kurtosis, trend analysis, FFT analysis,		
	advanced filtering, frequency fine tuning, trigger modes		
Database	InfluxDB for easy data review and export		
Power supply	9-18v DC isolated		
Power consumption	<15w		
Size	141x127x31mm	141x121x31mm (5.5x4.7x1.2	141x125x28mm (5.5x4.9x1.1
	(5.55x5x1.22 inch)	inch)	inch)
Weight	555 g (1.22 lb.)	490 g (1.08 lb.)	460g (1.02 lb.)
Working	-30 - 60 Celsius (-22 - 140 Fahrenheit), 10% ~ 90%RH		
environment			
GPIO	No	Yes	Yes
Cellular network	No	No	Yes
Additional features	Edge computing, real time	Edge computing, real time clock,	Edge computing, real time clock,
	clock, OTA upgrade, USB	OTA upgrade, USB, RS485	OTA upgrade, USB, RS485
		RTU, 2nd power connector	RTU, 2nd power connector

Revision: April 15, 2024

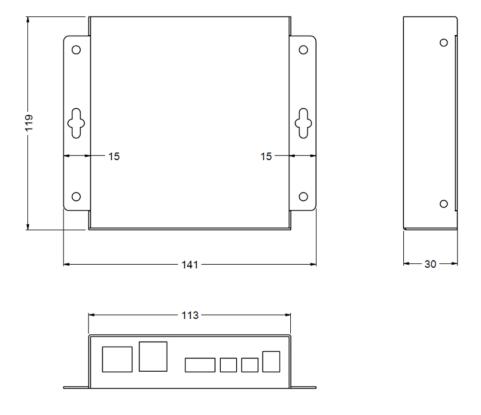




GU200S mechanical drawing

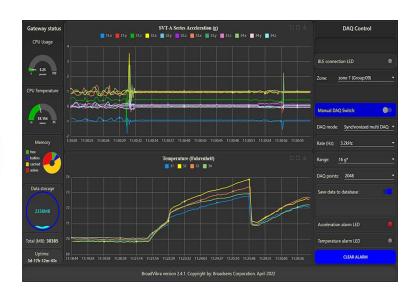


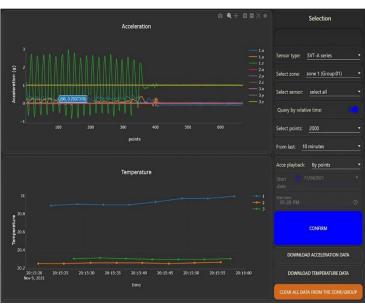
GU300 mechanical drawing

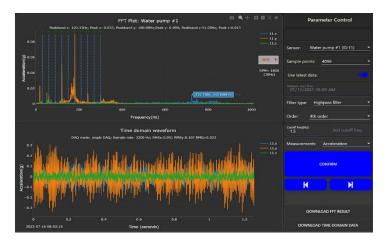


GU300S mechanical drawing

BroadVibra Software
BroadVibra software is installed inside
the wireless gateway. The software
has intuitive interface and can be
accessed from all major web
browsers remotely. The software is
ideal for predictive maintenance and
conditional based monitoring







## Software Advantages

- . Data visualization
- . Real time monitoring
- . Alarm setup
- . Threshold adjustment
- . Monitoring timer
- . Data replay
- . Vibration trend analysis
- . FFT analysis
- . Parameter adjustment
- . Firmware update
- . Secure data
- . Filtering

FFT analysis can be performed at each SVT-A sensor. In the figure, the top chart is the FFT waveform, and the bottom chart is the corresponding time-domain waveform. FFT result and time-domain data can be exported to CSV file. Advanced filters can be added for the time domain data and FFT analysis. User can select acceleration or velocity parameters for analysis.

## "Broadsens, sense the broader world"

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