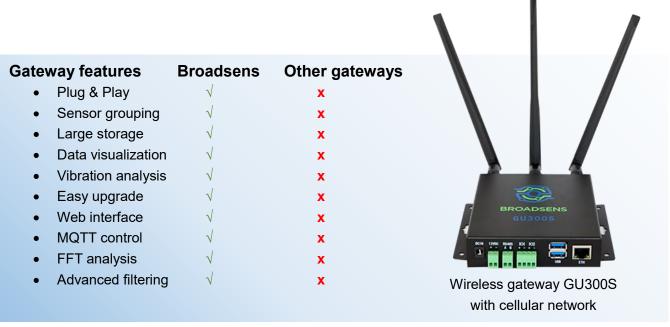


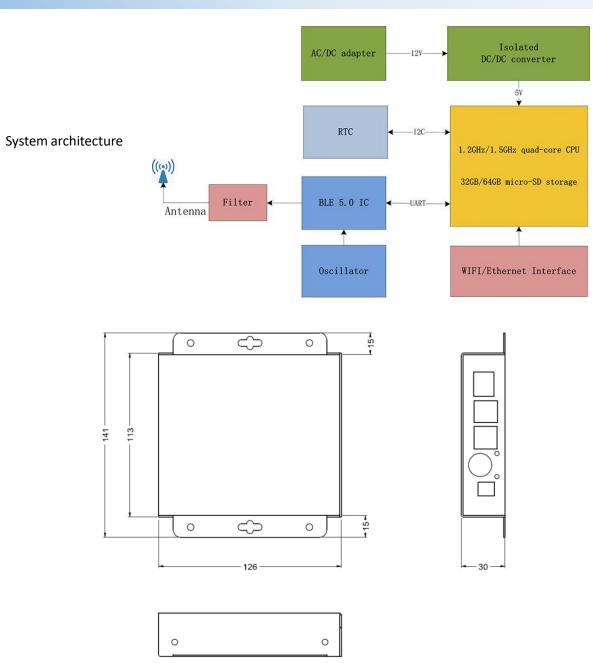
Broadsens edge-computing wireless gateways connect and control multiple wireless low-power sensors such as SVT200-A, SVT300-A, SVT400-A, SVT200-V, SVT300-V and SVT400-V. The gateways include 4-core ARM processor for real-time data visualization and processing. It integrates a time-series database InfluxDB 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.



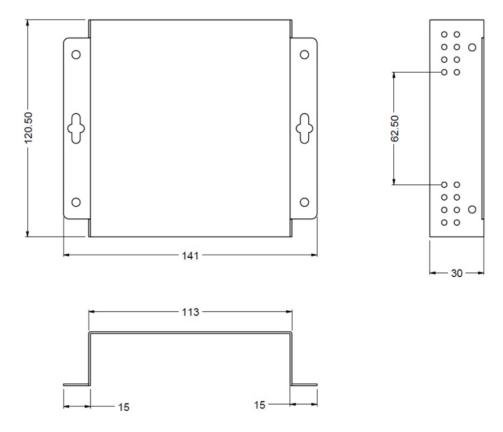
Wireless gateway GU300

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 0.13w			
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			
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 environment	-30 - 60 Celsius (-22 - 140 Fahrenheit), 10% ~ 90%RH			
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	

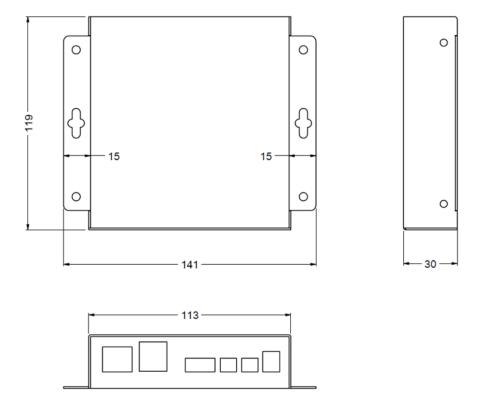




GU200S mechanical drawing

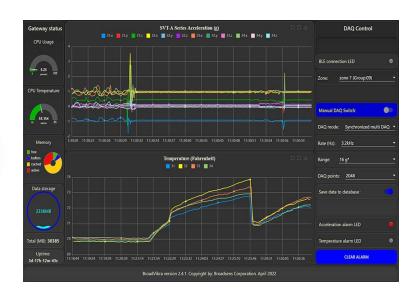


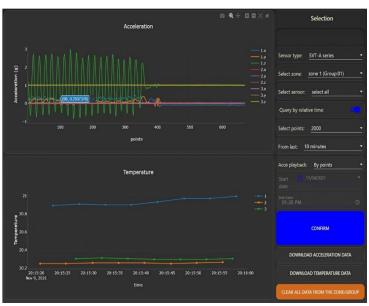
GU300 mechanical drawing

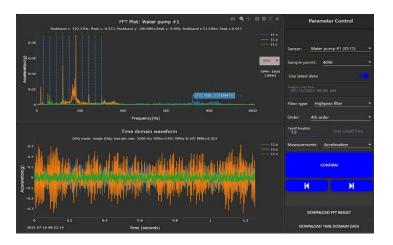


GU300S mechanical drawing

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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