





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 BroadVibraTM 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.



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	Today of the	wireless gateway 60300								
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		I								
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							

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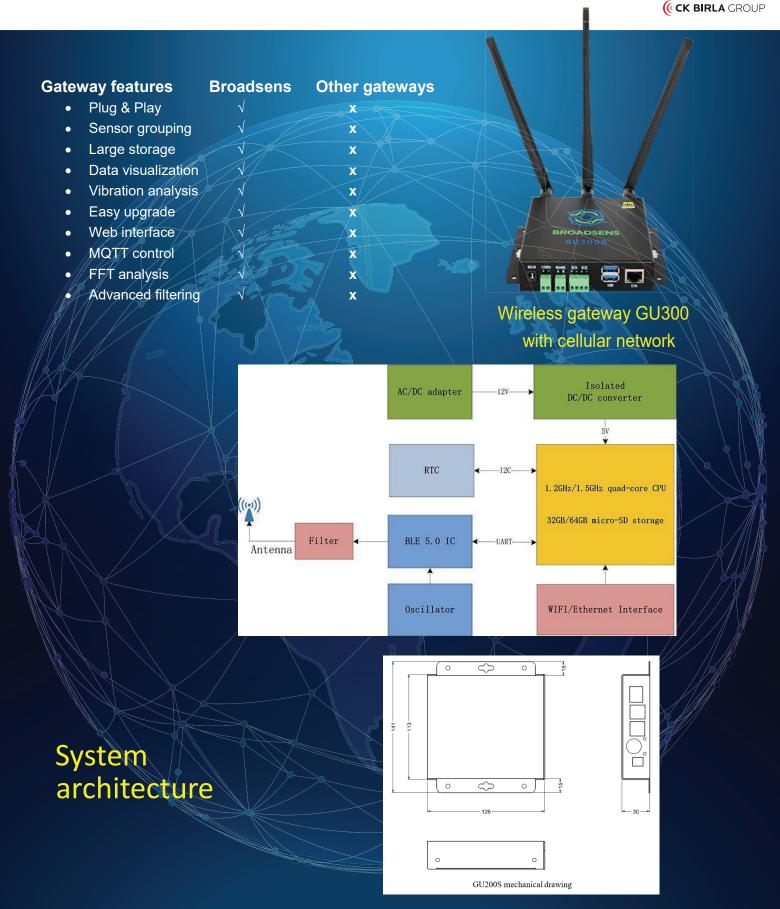












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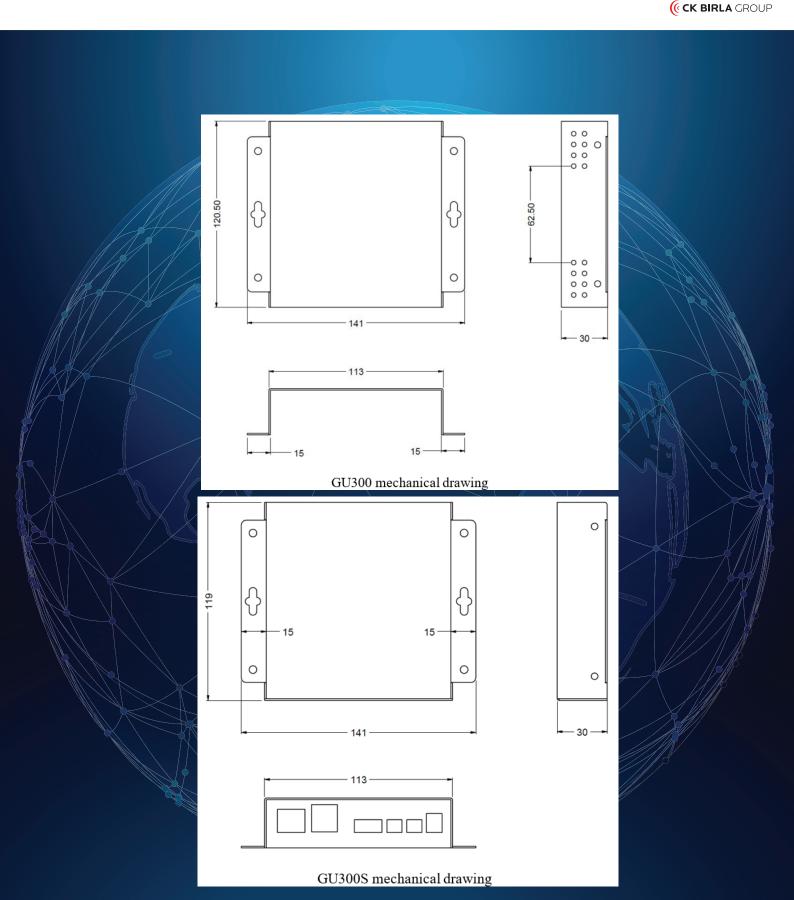
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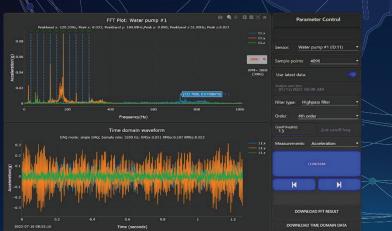
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## BroadVibra Software

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.



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