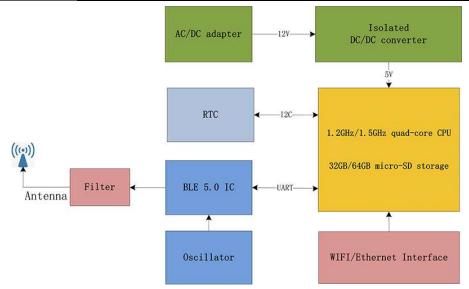


Wireless gateway GU200 connects multiple wireless low power sensors such as SVT100-A and SVT100-T to user's servers and clouds. GU200 includes a powerful microcontroller for real-time data visualization. It integrates a time-series database InfluxDB for data review and analysis. Data can be further transferred to user's private clouds or servers via MQTT protocol. GU200 can be accessed with a web browser, so there is no software installation required and it is ready to use immediately.



Wireless gateway GU200

型号	GU200	GU200s	
Microcontroller	ARM Cortex-A53 1.2Ghz 64 bit	ARM Cortex-A72 1.5Ghz 64 bit	
Operating system	Linux Debian		
RAM	1 GB	2GB	
Data storage	32GB	64GB	
Network interface	WIFI/Ethernet	WIFI/Gigabit Ethernet	
Sensor interface	BLE 5.0		
Number of wireless sensors	Up to 256 (8 temperature sensors, 248 vibration temperature sensors). Recommended usage: Up to 8 temperature sensors, up to five zones, with three sensors at each zone for the maximum performance		
Power supply	9-18 VDC		
Power consumption	1 OW	15W	
Weight	700g		
Size (L*W*H)	141*126. 5*30. 5mm		
Working environment	Temperature: -30℃~60℃; humidity: 10%~90%RH		
Additional features	Real-time hardware clock; Over-the-Air update, USB interface		



Features	GU200	Competitors		
Plug & Play	\checkmark	x		
Sensor grouping	\checkmark	x		
Large storage	\checkmark	x	-	ROAD
Data visualization	\checkmark	x		
Data analysis	\checkmark	x	USB US	8 ETH
Easy upgrade	\checkmark	x		
Web interface	\checkmark	x		•

Software Interface

GU200 software interface is based on Node-RED, which is easy to expand and adjust. InfluxDB database is used for data storage





Software Advantages

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

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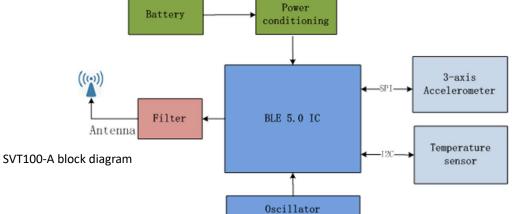


SVT100-A is an ultra-low power wireless vibration and temperature sensor designed for machine condition monitoring. It has the advantages of easy installation, easy usage and high battery efficiency. SVT100-A consists of low power wireless IC, high performance 3-axis accelerometer and high precision temperature sensor. It can monitor the machine status in real time or by schedules. Multiple SVT100-As can be grouped together and divided into different groups at the gateway GU200 (sold separately). They can be synchronized to provide advanced monitoring and analysis ability.



Wireless vibration & temperature sensor SVT100-A

Parameters	Description		
Acceleration range	±2g, ±4g, ±8g		
Selectable sampling rates	50Hz, 100Hz, 200Hz,400Hz,800Hz,1.6kHz,3.2kHz,6.4kHz,		
Selectable sampling rates	12.8kHz, 25.6kHz		
Resolution	16 bit. ±2g:0.06mg/bit; ±8g:0.24mg/bit		
Non-linearity	<0.6% of full scale		
Noise	0.7mg RMS; 130ug/ √ Hz density		
Sampling modes	Real time, synchronized real time, batch mode & synchronized		
Sampling modes	batch mode; single DAQ; synchronized single DAQ		
Temperature measurement range	-40 - 125 °C		
Temperature measurement accuracy	-25-85°C: ±0.3 °C; -40-125°C: ±0.4 °C		
Temperature measurement period	5s when active		
Power econoumption	Sleep mode:4-8uA; Sampling & transmission<400uA (measured		
Power consumption	at 1.6 kHz, batch mode)		
Power supply	14250 replaceable battery, 1200mAh capacity. Can last more		
	than 5 years (depending on the frequency of usage and mode)		
Wireless protocol	BLE 5.0 at 2.4GHz		
FCC ID	X8WBC840M		
Wireless distance	Up to 100m		
Size	Diameter:34mm; height:31mm		
Weight	110 g (including battery)		
Installation	Epoxy mount; screw mount (M6); stud mount (M6)		
Working environment	Temperature: -30 - 65 ºC; water resistance: IP67		
Battery	Power		



Advantage of SVT100-A



Thanks to its unique low-power design, SVT100-A can work for up to 5 years without replacing the battery (depending on the frequency of usage and work mode). SVT100-A is easy to install and configure, which solves the problem of complicated setup process of wireless sensors. SVT100-A can work under harsh environment. It has a secure boot loader for improved security. It supports OTA (Over the Air) firmware upgrade. SVT100-A has six working modes: real time mode, synchronized real-time mode, batch mode, synchronized batch mode, single DAQ and synchronized single DAQ.

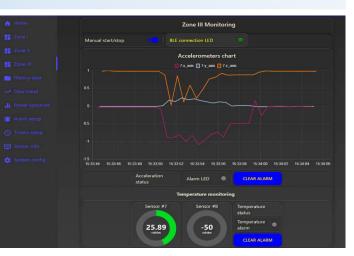
. Real-time mode: when sensor wakes up, it starts data acquisition and transmission immediately.

. Batch mode: When sensor wakes up, it takes a fixed amount of data at the given sample rate and transmit the data together to the gateway, and then repeat the process.

. Single DAQ: When sensor wakes up, it takes a fixed amount of data at the given sample rate and transmit the data to the gateway for one time only. The sampling rate is guaranteed and is ideal for frequency domain analysis. . Synchronized mode: Synchronized mode can be combined with real-time mode, batch mode or single DAQ. After waking up, the sensors in the same group start taking data and transmission at the same time. This feature is useful for advanced analysis.

Monitoring Software

Monitoring software at the gateway GU200 is based on Node.js's open-source architecture. It is web-based and can be accessed with all major web browsers.





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Software advantages

- . Real-time monitoring
- . Intuitive data visualization
- . Alarm & threshold setup
- . Scheduled data acquisition
- . Time-series database
- . Key parameters trend charts
- . Power spectrum analysis
- . OTA firmware upgrade
- . Open source
- . Secure data transmission

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