



# BST

## Behineh Sazan Toos Co.



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NO 370, SANAT BLV, TOOS INDUSTRIAL ESTATE,  
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## IRANTECH AP200 WI-SUN GATEWAY

The IRANTECH AP200 is a device which can be used to run IoT networks based on Wi-SUN technology. IRANTECH AP200 can be used to setup a large scale Wi-SUN compliant network of maximum 10000 nodes. It also supports both mesh and star topology. Under ideal circumstances, this outdoor wireless device can cover about 1.5 km radius area using star topology cover about 6km radius area using mesh topology connected an outdoor fiberglass omnidirectional antenna. IRANTECH AP200's strong housing can reach IP67 level of water proof and dust proof, so it can be installed outside anywhere with pole mounting.

The IRANTECH AP200 supports flexible ways for communication with central server, including 3G/4G wireless cellular network, fiber cable or Ethernet



## Technical Specifications

Description	VALUE
<b>Physical Specifications</b>	
Dimensions (Height x Width x Depth)	290mm x 274mm x 126 mm
Pole Mount	Yes
Wall Mount	Yes
Storage Temperature	-40 to 85
Operating Temperature	-40 to 70
Typical Power Consumption or Dissipation	48 Watts
Protection grade	IP67
<b>Wireless Communication Modules</b>	
IEEE 802.15.4g Wi-SUN compliant	Yes
4G LTE for Global	Yes
IEEE 802.11b/g/n Wi-Fi	Yes
GPS for location	Yes
Antenna Gain	5dBi
<b>Wi-SUN RF Parameters</b>	
ISM frequency band	915.4-919
Spread spectrum	FHSS (Frequency Hopping Spread Spectrum)
Transmit Power	25 mW e.r.p.
Sensitivity	-110 dBm@50kbps
	-97 dBm@300kbps
Channel Width	200 KHz
Duty Cycle	< 10%





## Technical Specifications

Description	VALUE
<b>Power Options</b>	
Power Supply	AC power supply: 85~336VAC
Battery Backup Options	Integrated modular battery unit for backup
Power Button	Yes
<b>Support Protocols</b>	
IEC 60870-5-101/104, IEC 61850, IEC61968, DLMS	Yes
DHCPv6, DNS, VPN tunnel	Yes
IPv4, IPv6, UDP, TCP, CoAP	Yes
IETF 6LoWPAN, IETF RPL	Yes
IEEE 1901.1	Yes
IEEE 802.15.4g/e, IEEE 802.11b/g/n, RS232	Yes
<b>System capacity</b>	
Network capacity (nodes access with repeaters)	10000 units
Uninterrupted working time	8 hours with battery
Product lifecycle time	15 years
Computing capacity	ARM Cortex A7 dual core 1.2GHz/ 512K L2 cache with ECC protection/ DDR3L/4 1.6GHz with 1GBytes



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