

SE5201B/CR5201B

Low Power Consumption Gateway LTE Cat-1



FEATURE HIGHLIGHTS

Comprehensive Connectivity

- LTF Cat 1
- 2x 100 Base TX R.145 2x LAN
- 1 RS 232/485 COM Ports(SE5201B only)
- 1 DI & 1 DO I/O Interface

Reliable & Trustworthy Platform

- Multi WAN Failover
- · Secure VPN and Firewall Isolation
- IEC62443-4-2 Cybersecurity Compliance*

Quick Deployment & Management

ATOP NMS Management

Compact and Robust Design

- Efficient Power Consumption (<100 mW)
- Dimensions: 136 x 95 x 30 mr
- · Industrial EMC Protection
- -30°C to +75°C Operation

Other Features

- SD Slot for Configuration and Storage
- Optional GPS Function
- Schedulable Power Management

High Quality Guaranteed

Made in Taiwan with 5 Years Warranty

Coming soor

PRODUCT DESCRIPTION

ATOP SE5201B/ CR5201B IoT gateway is a super-low power consumption LTE gateway. In addition to high EMC protection, wide-temperature operation, and rugged metal housing, SE5201B/ CR5201B series has a configurable power management mechanism to reduce device power consumption. It is suitable for various operations, especially in power-challenged environments.



Efficient Power Consumption

SE5201B/CR5201B supports Cellular LTE Cat-1. With extended idle and sleep modes, these standards have lower power consumption than other LTE standards. SE5201B/ CR5201B further enhances this efficiency by using less than 100 mW power in sleep mode, allowing easy deployment in power-challenged environments.



Exceptional Security

Integrating Firewall, Zone forwarding, and VPN functions, ATOP SE5201B/CR5201B allows you to connect your industrial network to the internet without fearing intrusions to your organization data.



Expandable SD Storage

SE5201B/ CR5201B reserves the flexibility to extend its storage capacity through a built-in SD slot, so you can store more data on the IoT gateway for work efficiency as well.



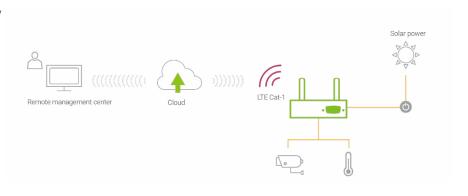
Endurance of Harsh Environments

ATOP SE5201B/ CR5201B is proven to run at its maximum loading in the harshest EMC and climate environments.

APPLICATIONS

As a Low Power Consumption IoT Gateway

SE5201B/ CR5201B can act as a low power consumption gateway. Through its smart power management mechanism, the device switches to sleep mode or hibernation mode during non-service phases, and can be woken via scheduled management policies to serve functions when needed. It is especially suited where power supply is limiting, such as in systems powered by solar batteries.

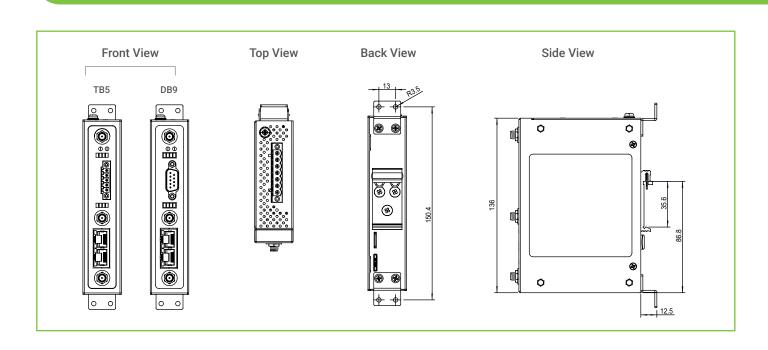


As a Cyber Security Gateway



SE5201B/ CR5201B is also designed to act as a cyber security gateway. Un-secured network access will be denied by the firewall protection, while secured VPN tunnels enhance the security of your data transmission during the network communication. Security and encryption are indispensable to IoT, and therefore fundamental functions of SE5201B/ CR5201B.

DIMENSIONS & LAYOUT



SPECIFICATIONS

Hardware Specifications				
Model Name	SE5201B/ CR5201B Series			
Cellular Interfaces				
Standards	LTE Cat 1			
Ethernet Interfaces				
Standards	802.3 for 10BaseT(X) 802.3u for 100BaseT(X)			
Ports	2 x RJ-45 10/100 BaseT(X), 1.5kV isolation			
GNSS				
Standards	GPS/GLONASS			
Serial Interfaces (SE5201B only)				
Connector Type	9-Pin D-Sub or 5-Pin Terminal Block			
Ports	1 x RS-232/RS-485-2W, software selectable			
Baud Rate	1200 to 460,800 bps			
Parity	None, Odd, Even			
Data Bits	5, 6, 7, 8, software selectable			
Stop Bits	1, 2, software selectable			
Flow Control	None, Xon/Xoff, RTS/CTS (RS-232 only)			
Terminal Resistor (Ω)	120			
Pull High/Low Resistor (Ω)	On: 1K; Off: 100K			
External I/O Interfaces (SE5201B o	nly)			
Digital Input & Output	1 x DI, Photo coupled isolated (5VDC) 1 x DO, Digital Relay Output (1A@24VDC)			
Default/Reset Button	1 key			
Mode Button	1 key			
SIM card slots	1 or 2 push-pull SIM card holder			
SD Slot	1x Micro SD slot			
LED Indicators				
Power LED	1x Green LED			
Run LED	1x Green LED			
COM LED	1x Tx Green LED; 1x Rx Green LED			
DI/DO LED	1x DI LED; 1x DO Green LED			
LTE Signal	4X Green LED			

SPECIFICATIONS

Cellular GNSS (Optional) Power Characteristics Connector Type Input Voltage Power Consumption (SE5201B only)	2 x SMA(M) Antenna for LTE Cat.1 1 x Wide-Band Terminal Block 9 to 48 VDC Idle < 3W@12VDC; Hibernate < 100mW@12VDC			
Power Characteristics Connector Type Input Voltage	Terminal Block 9 to 48 VDC			
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Input Voltage	9 to 48 VDC			
<u> </u>				
Power Consumption (SE5201B only)	Idle < 3W@12VDC; Hibernate < 100mW@12VDC			
Reverse Polarity Protection	Yes			
Physical Characteristics				
Housing	Metal housing, IP30 Protection			
Dimension (W x H x D)	136 x 95 x 30 mm			
Weight	TBD			
Installation	DIN-Rail, Wall mount (Optional)			
Reset Button	Yes			
Environmental Limits				
Operating Temperature	-30 to +75 °C			
Storage Temperature	-40 to + 85 °C			
Ambient Relative Humidity	5% to 95% (non-condensing)			
Ingress Protection Rating	IP30			
Software Specifications				
Protocols	TCP/IP, UDP, ARP, DHCP, SMTP, SNMP, Https, SNMP v1/v2/v3			
Security	OpenVPN, IPSEC, L2TP			
Virtual COM	Yes			
Firewall	ACL, NAT, Port-forwarding			
VPN	IPSEC, OpenVPN, L2TP			
System Management	WEB, SSH, Telnet			
Power Management	Scheduled power management - Sleep mode - Hibernation mode Multi waken-up mechanisms from sleep/hibernation modes			

REGULATORY APPROVALS

Regulatory Approva	ls							
Safety	EN62368-1							
EMC	CNS 15936/15598-1 EN55032, EN61000-6-4, EN55024, EN61000-6-2, FCC Part 15B, FCC Part 18							
CE	Cellular	EN301489-1/-52, EN301908-1 RSE for LTE and WCDMA EN301511 for GSM						
	GNSS	EN303413, EN301489-1/-3						
FCC		FCC Part 15B, FCC Part 18, FCC part15C (15.247) Part 22H/24E/27L/27H/27F/27M/90R for LTE						
NCC	CNS 15936/15598-1							
Test		Item	Value	Level				
IEC 61000-4-2	ESD	Contact Discharge Air Discharge	±4KV ±8KV	2 3				
IEC 61000-4-3	RS	Enclosure Port	10 (V/m) , 80-1000MHz 3 (V/m), 1.4-2.0GHz 10 (V/m), 2.0~2.7GHz	3 3 3				
IEC 61000-4-4	EFT	DC Power Port Signal Port	±1.0KV@ 5.0kHz ±1.0KV @ 5.0kHz	2 3				
IEC 61000-4-5	Surge	DC Power Port Signal Port	Line-to-Line ±0.5KV Line-to-Earth ±1.0KV Line-to-Earth ±1.0KV	2 2 2				
IEC 61000-4-6	CS	DC Power Port Signal Port	10V, 150KHz to 80MHz, 80%AM 10V, 150KHz to 80MHz, 80%AM	3 3				
IEC 61000-4-8	PFMF	Enclosure	30A/m (r.m.s), 50Hz or 60Hz	4				
Shock	IEC 60068-2-27	IEC 60068-2-27						
Freefall	IEC 60068-2-32							
Vibration	IEC60068-2-64							
Others	- ROHS, including 2015 amendment - REACH - TSCA (US) - TPCH (US) - Conflict mineral free							
MTBF	TBD							
Warranty	5 years							

ORDERING INFORMATION

Ordering information-C1									
	Description								
Model name	Part Number	Cellular	Band	RS232/485 Serial Port	SIM Slots	GPS			
SE5201B-Q-T-C1-DB-EU	1P1SE5201B0011G	LTE Cat.1		1x DB9	1	-			
SE5201B-Q-T-C1-DB-EU-GPS	1P1SE5201B0012G	LTE Cat.1	B1/B3/B7/B8/		2	Yes			
SE5201B-Q-T-C1-TB-EU	1P1SE5201B0013G	LTE Cat.1	B20/B28	1x TB5	1	-			
SE5201B-Q-T-C1-TB-EU-GPS	1P1SE5201B0014G	LTE Cat.1			2	Yes			
SE5201B-Q-T-C1-DB-US	1P1SE5201B0001G	LTE Cat.1		1x DB9	1	-			
SE5201B-Q-T-C1-DB-US-GPS	1P1SE5201B0002G	LTE Cat.1	B2/B4/B5/B12/		2	Yes			
SE5201B-Q-T-C1-TB-US	1P1SE5201B0003G	LTE Cat.1	B13		1	-			
SE5201B-Q-T-C1-TB-US-GPS	1P1SE5201B0004G	LTE Cat.1		1x TB5	2	Yes			
SE5201B-E-T-C1-DB	1P1SE5201B0017G	LTE Cat.1	1x DB9		1	-			
SE5201B-E-T-C1-DB-GPS	1P1SE5201B0019G	LTE Cat.1			2	Yes			
SE5201B-E-T-C1-TB	1P1SE5201B0018G	LTE Cat.1	B1/B3/B7/B8/ B20/B28	1TDF	1	-			
SE5201B-E-T-C1-TB-GPS	1P1SE5201B001AG	LTE Cat.1		1x TB5	2	Yes			
CR5201B-E-T-C1	1P1CR5201B0011G	LTE Cat.1		-	1	-			

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