

SE5201B

Low Power Consumption Gateway LTE Cat-1



FEATURE HIGHLIGHTS

Comprehensive Connectivity

Reliable & Trustworthy Platform

Quick Deployment & Management

Compact and Robust Design

Other Features

High Quality Guaranteed

PRODUCT DESCRIPTION

ATOP SE5201B IoT gateway is a super-low power consumption LTE gateway. In addition to high EMC protection, wide-temperature operation, and rugged metal housing, SE5201B 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 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 powerchallenged environments.



Exceptional Security

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

Expandable SD Storage

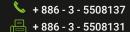


SE5201B reserves the flexibility to extend its storage capacity through a built-in SD slot, so you can store more data on the IoT gateway for work efficiency as well.



Endurance of Harsh Environments

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



















APPLICATIONS

As a Low Power Consumption IoT Gateway

SE5201B 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.

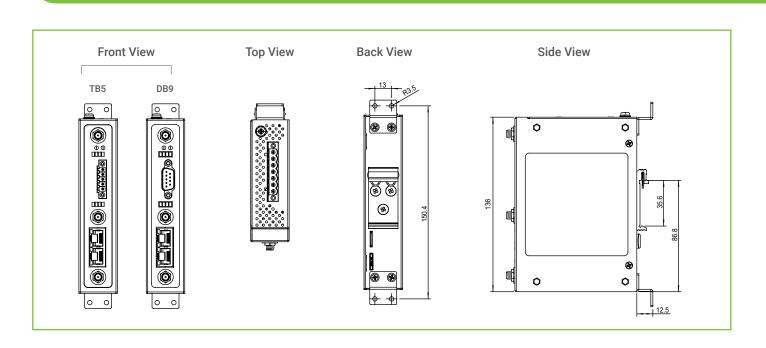


As a Cyber Security Gateway



SE5201B 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.

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/BeiDou/Galileo/QZSS		
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		







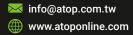






SPECIFICATIONS

Wide-Band Pininal Block 48 VDC < 3W@12VDC; Hibernate < 100mW@12VDC All housing, IP30 Protection x 95 x 30 mm Rail, Wall mount (Optional)	
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Rail, Wall mount (Optional)	
Rail, Wall mount (Optional)	
-30 to +75 °C	
-40 to +85 °C	
o 95% (non-condensing)	
/IP, UDP, ARP, DHCP, SMTP, SNMP, Https, SNMP v1/v2/v3	
OpenVPN, IPSEC, L2TP	
Yes	
ACL, NAT, Port-forwarding	
IPSEC, OpenVPN, L2TP	
WEB, SSH, Telnet	













REGULATORY APPROVALS

Regulatory Approva	ls					
Safety	EN62368-1, CN	EN62368-1, CNS15598-1				
EMC		EN55032, EN61000-6-4, EN55035, EN61000-6-2,				
CE	Cellular	EN301489-1/-52, EN301908-1				
	GNSS	EN303413, EN301489-19				
FCC	FCC Part 15B, F	FCC Part 15B, Part 22H/24E/27L/90				
NCC	CNS 15936/15	CNS 15936/15598-1				
Test		Item	Value	Level		
IEC 61000-4-2	ESD	Contact Discharge Air Discharge	Discharge ±4KV +9KV			
IEC 61000-4-3	RS	Enclosure Port 10 (V/m) , 80-1000MHz 3 (V/m), 1.4-6.0GHz				
IEC 61000-4-4	EFT	DC Power Port Signal Port				
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		
IEC 61000-4-8	PFMF	Enclosure	30A/m (r.m.s), 50Hz or 60Hz			
Shock	IEC 60068-2-27	IEC 60068-2-27				
Freefall	IEC 60068-2-32	IEC 60068-2-32				
Vibration	IEC60068-2-64					
Others	- REACH - TSCA (US) - TPCH (US)	- TSCA (US)				
MTBF	TBD	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	D1/D2/D7/D0/	1x DB9	1	-
SE5201B-Q-T-C1-DB-EU-GPS	1P1SE5201B0012G	LTE Cat.1	B1/B3/B7/B8/ B20/B28		2	Yes
SE5201B-Q-T-C1-TB-EU	1P1SE5201B0013G	LTE Cat.1	(for EU region)	1., TDF	1	-
SE5201B-Q-T-C1-TB-EU-GPS	1P1SE5201B0014G	LTE Cat.1		1x TB5	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/	IX DB9	2	Yes
SE5201B-Q-T-C1-TB-US	1P1SE5201B0003G	LTE Cat.1	(for US region) 1x TB5		1	-
SE5201B-Q-T-C1-TB-US-GPS	1P1SE5201B0004G	LTE Cat.1			2	Yes
SE5201B-E-T-C1-DB-TW	1P1SE5201B0017G	LTE Cat.1	B1/B3/B7/B8/ 1x DB9		1	-
SE5201B-E-T-C1-DB-TW-GPS	1P1SE5201B0019G	LTE Cat.1			2	Yes
SE5201B-E-T-C1-TB-TW	1P1SE5201B0018G	LTE Cat.1 (for Taiwan		1 TDF	1	-
SE5201B-E-T-C1-TB-TW-GPS	1P1SE5201B001AG	LTE Cat.1	regionij	1x TB5	2	Yes
SE5201B-Q-T-C1-DB-LA-GPS-GPS	1P1SE5201B0062G	LTE Cot 1	B1/B2/B3/B4/ B5/B7/B8/B28/	1x DB9	2	V/00
SE5201B-Q-T-C1-TB-LA-GPS-GPS	Contact Headquarter	Contact Headquarter LTE Cat.1		1x TB5		Yes

Optional Accessories				
Model name	Part Number	Description		
UN315-1212(US-Y) LV6	50500151120003G	Y-Type (5.08 mm) adaptor, 100-240VAC input, 1.25A @ 12VDC output, US plug		
UNE315-1212(EU-Y) LV6	50500151120013G	Y-Type (5.08 mm) adaptor, 100-240VAC input, 1.25A @ 12VDC output, EU plug		
RFDPA46383ASBGBA01	59902241G	GPS Antenna(GPS/GLONASS/BeiDou)		







