

# ABN300 series

One port AUTBUS DIN-Rail Converter

### Overview

ABN300 series support One (1) AUTBUS port and a variety of additional interfaces, including Ethernet, CAN and RS485. ABN300 series provides the effective transmission of multiple protocols and data types via AUTBUS networks and supports multi-drop connections, long distances (up to 500m) transmission with 100Mbps system bandwidth. The ABN300 series represents an optimal communication solution for industrial sectors such as Process Automation, Oil & Gas Pipeline Management, Renewable Energy, Building Automation, Factory Automation, and Railway Construction.



### **Key Features**

- Support AUTBUS standard: IEC 61158 Type 28
- · Support AUTBUS key features:
  - Multi-drop connection
  - Ring and BUS topology
  - Up to 100Mbps bandwidth
  - Up to 500m transmission distance
- Carry different protocols through AUTBUS network:
  - Ethernet, 10/100Mbps
  - o RS485
  - CAN 2.0B
- Support multiple industrial level connectivity requirements

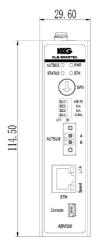
- · Easy to install and configuration
  - AUTBUS Plug & Play (AP&P) by default
  - Working mode is selected by hardware switch
  - Software configuration tool
- Support 2-wire cable
  - Coaxial Cable
  - o SPE twist-pair cable
  - $\circ$  Other 100 $\Omega$  cable (needs to be verified)

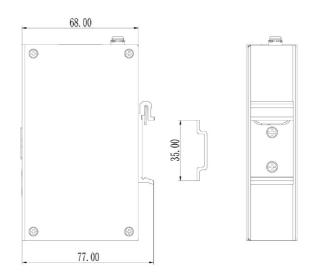
## Product Specifications

ABN300						
		AUTBUS, configurable, up to 100Mbps				
		CAN, configurable, up to 1Mbps				
	Protocol Bandwidth	RS485, configurable, up to 10Mbps				
		Ethernet, Auto Negotiation, 10/100Mbps				
	Working Mode Switch	Option 0 – 15				
Interface		ATB-TR: AUTBUS Terminal Resistor 100 $\Omega$				
	DIP Switch	CAN-TR:CAN Terminal Resistor 120Ω				
		RS485-TR: RS485 Terminal Resistor 120 $\Omega$				
		Terminal Block				
		3-Pins M8				
	Connector Type	IEC 63171-2 IP20 SPE				
		Mini USB for console				
Power Input	Power Range	24-48VDC (18-72VDC)				
	Consumption	3W				
	Housing	Metal, Black				
	IP Level	IP30				
Mehanical	Weight	600g				
	Dimension	30mm x 115mm x 68mm (W×H×D)				
	Mounting Type	DIN-Rail				
	Operating Temperature	-40~70°C				
	Storage Temperature	-40~85°C				
Environment	Ambient Relative Humidity	5-95% (non-condensing)				
	Cooling	Fanless				
	EN41	FCC CFR47 Part 15				
	EMI	EN55022/CISPR22, Class A				
		IEC 61000 – 4 – 2 (ESD), Air: ±8KV, Contact: ±6kV				
		IEC 61000 – 4 – 3 (RS), 10V/m (80MHz ~ 2GHz)				
		IEC 61000 – 4 - 4 (EFT), DC Power Port: ±2kV, Singal Port: ±2kV				
Standard	EMC	IEC 61000 – 4 – 5 (Surge), Power Port: ±1kV/DM, ±2kV/CM, Singal Port: ±1kV (line to line), Singal Port: ±2kV (line to earth)				
		IEC 61000 – 4 - 6 (CS), Signal ports: 0.15 ~ 230MHz at 10V/m, Power ports: 0.15 ~ 80MHz at 10V/m				
		IEC 60068 – 2 - 6 (Vibration)				
	Machinery	IEC60068 - 2 -27 (Shock)				
		IEC60068 – 2 – 32 (Free Fall)				

### **Mechanical Drawing**

Unit: mm





## Ordering Information

### Ordering Rule

ABN300	-	AUTBUS Port	AUTBUS Connector	-	Other Ports	Other Connector	-	Power Input
ABN300	-	A1: AUTBUS Port	<b>TB</b> : Terminal Block, 2 pins x 3.81mm	-	C1: 1 CAN port	<b>TB</b> : Terminal Block, 3 pins x 3.81mm	-	<b>L2</b> : 24-48VDC (18-72VDC)
			<b>M8</b> : 3 pins M8					
ABN300	-	A1: AUTBUS Port	<b>TB</b> : Terminal Block, 2 pins x 3.81mm	-	S1:1Serial port	<b>TB</b> : Terminal Block, 3 pins x 3.81mm	-	<b>L2</b> : 24-48VDC (18-72VDC)
			<b>M8</b> : 3 pins M8					
ABN300	-	A1: AUTBUS Port	<b>TB</b> : Terminal Block, 2 pins x 3.81mm	-	<b>E1</b> : 1 Ethernet port	RJ: RJ45 connector	-	<b>L2</b> : 24-48VDC (18-72VDC)
			<b>M8</b> : 3 pins M8					L2-L2: 24-48VDC (18-72VDC), redundant power inputs
			<b>SA</b> : IEC 63171-2 IP20 SPE					

### Available Models

Part Number	Product Description
ABN300-A1TB-C1TB-L2	AUTBUS to CAN converter, AUTBUS x 1 port, 2 pins x 3.81mm Terminal Block with screw interface, CAN x 1, 3 pins x 3.81mm Terminal Block with screw interface, 24–48VDC (18–72VDC)
ABN300-AIM8-C1TB-L2	AUTBUS to CAN converter, AUTBUS x 1 port, 3 pins M8 interface, CAN x 1, 3 pins x 3.81mm Terminal Block with screw interface, 24–48VDC (18–72VDC)
ABN300-A1TB-S1TB-L2	AUTBUS to RS485 converter, AUTBUS x 1 port, 2 pins x 3.81mm Terminal Block with screw interface, RS485 x 1, 3 pins x 3.81mm Terminal Block with screw interface, 24-48VDC (18-72VDC)
ABN300-AIM8-SITB-L2	AUTBUS to RS485 converter, AUTBUS x 1 port, 3 pin M8 interface, RS485 x 1, 3 pins x 3.81mm Terminal Block with screw interface, 24-48VDC (18-72VDC)
ABN300-A1TB-E1RJ-L2	AUTBUS to Ethernet converter, AUTBUS x 1 port, 2 pins x 3.81mm Terminal Block with screw interface, 10/100M Ethernet x 1, RJ45 interface, 24-48VDC (18-72VDC)
ABN300-AIM8-EIRJ-L2	AUTBUS to Ethernet converter, AUTBUS x 1 port, 3 pins M8 interface, 10/100M Ethernet x 1, RJ45 interface, 24-48VDC (18-72VDC)
ABN300-A1SA-E1RJ-L2-L2	AUTBUS to Ethernet converter, AUTBUS x 1 port, IEC 63171-2 IP20 SPE interface, 10/100M Ethernet x 1, RJ45 interface, 24–48 VDC (18–72 VDC), redundant power inputs





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