

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
 - 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
 - SPE twist-pair cable
 - Other 100Ω cable (needs to be verified)

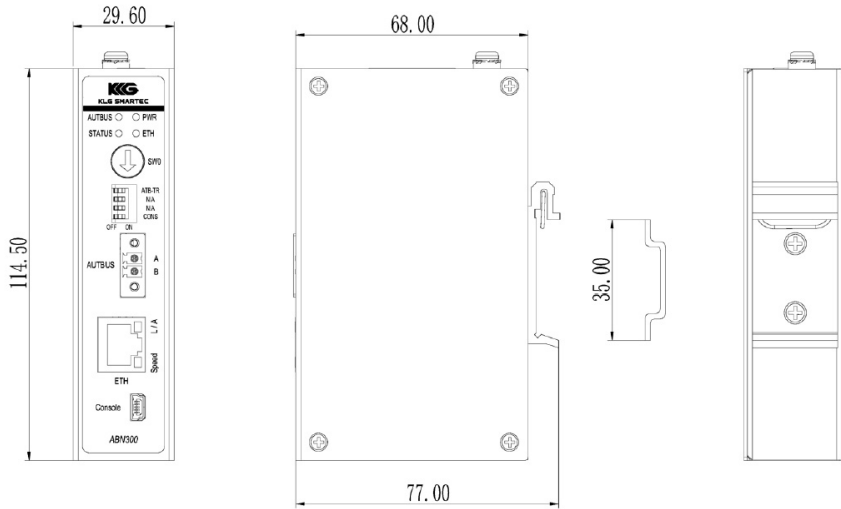
Product Specifications

ABN300

Interface	Protocol Bandwidth	AUTBUS, configurable, up to 100Mbps
		CAN, configurable, up to 1Mbps
		RS485, configurable, up to 10Mbps
		Ethernet, Auto Negotiation, 10/100Mbps
	Working Mode Switch	Option 0 – 15
	DIP Switch	ATB-TR: AUTBUS Terminal Resistor 100Ω
		CAN-TR: CAN Terminal Resistor 120Ω
RS485-TR: RS485 Terminal Resistor 120Ω		
Connector Type	Terminal Block	
	3-Pins M8	
	IEC 63171-2 IP20 SPE	
	Mini USB for console	
Power Input	Power Range	AC/DC 24~48V
	Consumption	3W
Mechanical	Housing	Metal, Black
	IP Level	IP30
	Weight	600g
	Dimension	30mm x 115mm x 68mm (W×H×D)
	Mounting Type	DIN-Rail
Environment	Operating Temperature	-40~70°C
	Storage Temperature	-40~85°C
	Ambient Relative Humidity	5-95% (non-condensing)
	Cooling	Fanless
Standard	EMI	FCC CFR47 Part 15
		EN55022/CISPR22, Class A
	EMC	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, Signal Port: ±2kV
		IEC 61000 – 4 – 5 (Surge), Power Port: ±1kV/DM, ±2kV/CM, Signal Port: ±1kV (line to line), Signal 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
	Machinery	IEC 60068 – 2 – 6 (Vibration)
		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	TB: Terminal Block, 2 pins x 3.81mm M8: 3 pins M8	-	C1: 1 CAN port	TB: Terminal Block, 3 pins x 3.81mm	-	L2: AC/DC 24~48V
ABN300	-	A1: AUTBUS Port	TB: Terminal Block, 2 pins x 3.81mm M8: 3 pins M8	-	S1: 1 Serial port	TB: Terminal Block, 3 pins x 3.81mm	-	L2: AC/DC 24~48V
ABN300	-	A1: AUTBUS Port	TB: Terminal Block, 2 pins x 3.81mm M8: 3 pins M8	-	E1: 1 Ethernet port	RJ: RJ45 connector	-	L2: AC/DC 24~48V L2-L2: AC/DC 24~48V, redundant power inputs
			SA: IEC 63171-2 IP20 SPE					

Available Models

Part Number	Product Description
ABN300-AITB-CITB-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, AC/DC 24~48V
ABN300-AIM8-CITB-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, AC/DC 24~48V
ABN300-AITB-SITB-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, AC/DC 24~48V
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, AC/DC 24~48V
ABN300-AITB-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, AC/DC 24~48V
ABN300-AIM8-E1RJ-L2	AUTBUS to Ethernet converter, AUTBUS x 1 port, 3 pins M8 interface, 10/100M Ethernet x 1, RJ45 interface, AC/DC 24~48V
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, AC/DC 24~48V, redundant power inputs



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