

# 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

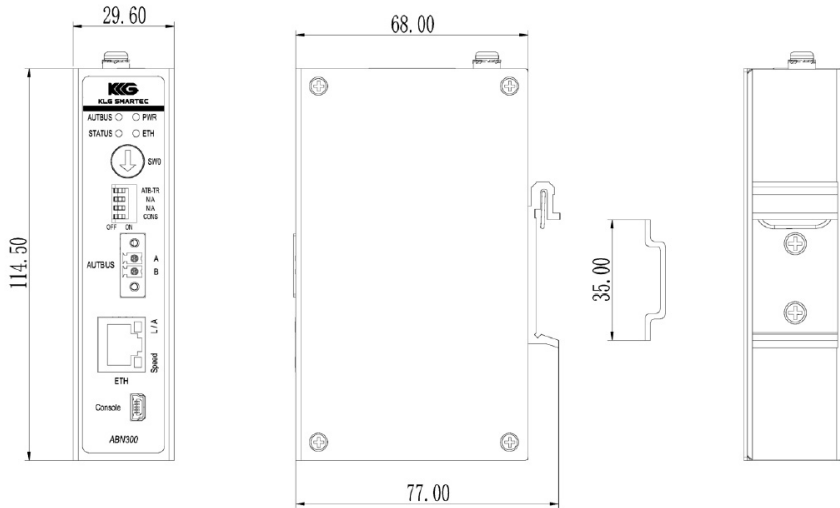
- Support AUTBUS standard: IEC 61158 Type 28
- Support AUTBUS key features:
  - Multi-drop connection
  - Ring and BUS topology
  - Up to 100Mbps bandwidth
  - Up to 500m transmission distance
- Carry different protocols through AUTBUS network:
  - Ethernet, 10/100Mbps
  - RS485
  - CAN 2.0B
- Support 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	24-48VDC (18-72VDC)
	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: 24-48VDC (18-72VDC)
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: 24-48VDC (18-72VDC)
ABN300	-	A1: AUTBUS Port	TB: Terminal Block, 2 pins x 3.81mm M8: 3 pins M8	-	E1: 1 Ethernet port	RJ: RJ45 connector	-	L2: 24-48VDC (18-72VDC) L2-L2: 24-48VDC (18-72VDC), redundant power inputs
			SA: 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-A1M8-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-A1M8-S1TB-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-A1M8-E1RJ-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, 24-48VDC (18-72VDC), redundant power inputs



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