

# KYWT & KYWT-POAS series

## One port AUTOBUS DIN-Rail Converter

### Overview



KYWT series support 1AUTOBUS port and a variety of additional interfaces, including Ethernet, CAN , RS485 and support Power over AUTOBUS.KYWT series provides the effective transmission of multiple protocols and data types via AUTOBUS networks and supports multi-drop connections, long distances (up to 500m) transmission with 100Mbps system bandwidth. The KYWT 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 AUTOBUS standard: IEC 61158 Type 28
- Support AUTOBUS key features:
  - Multi-drop connection
  - Ring and BUS topology
  - Up to 100Mbps bandwidth
  - Up to 500m transmission distance
- Carry different protocols through AUTOBUS network by the following interface:
  - Ethernet, 10/100Mbps
  - RS485
  - CAN 2.0B
- Support multiple industrial level connectivity requirements
- Easy to install and configuration
  - AUTOBUS Plug & Play (AP&P) by default
  - Working mode is selected by hardware switch
  - Software configuration tool
- Support wire cable
  - SPE twist-pair cable
  - Other 100Ω cable (needs to be verified)
- Support POAS: Support Power over AUTOBUS

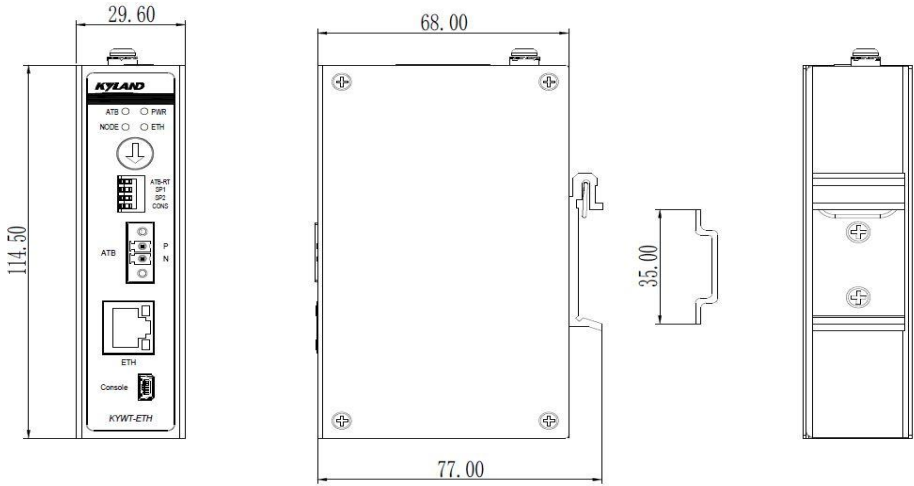
## Product Specifications

### KYWT

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	2.4W/3W(POAS Model)
Mechanical	Housing	Metal, Black
	IP Level	IP30
	Weight	200g
	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: ±1kV
		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

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

## Available Models

Part Number	Product Description
KYWT-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 3.81 mm Terminal Block with screw interface, 24-48VDC (18-72VDC)
KYWT-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, 24-48 VDC (18-72 VDC)
KYWT -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 3.81 mm Terminal Block with screw interface, 24-48 VDC (18-72VDC)
KYWT -A1M8-S1TB-L2	AUTBUS to RS485 converter, AUTBUS x 1 port, 3 pin M8 interface, RS485 x 1, 3 pins x 3.81 mm Terminal Block with screw interface, 24-48VDC (18-72VDC)
KYWT -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)
KYWT -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)
KYWT -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
KYWT-A1TB-C1TB-L2-POAS	AUTBUS to CAN converter, AUTBUS x 1 port, 2 pins x 3.81mm Terminal Block with screw interface, CAN x 1, 3 pins x 3.81 mm Terminal Block with screw interface, 24-48VDC (18-72VDC),support power over AUTBUS, Power consumption 3W
KYWT-A1M8-C1TB-L2-POAS	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, 24-48 VDC (18-72 VDC), support power over AUTBUS, Power consumption 3W
KYWT -A1TB-S1TB-L2-POAS	AUTBUS to RS485 converter, AUTBUS x 1 port, 2 pins x 3.81mm Terminal Block with screw interface, RS485 x 1, 3 pins x 3.81 mm Terminal Block with screw interface, 24-48 VDC (18-72VDC), support power over AUTBUS, Power consumption 3W
KYWT -A1M8-S1TB-L2-POAS	AUTBUS to RS485 converter, AUTBUS x 1 port, 3 pin M8 interface, RS485 x 1, 3 pins x 3.81 mm Terminal Block with screw interface, 24-48VDC (18-72VDC), support power over AUTBUS, Power consumption 3W
KYWT -A1TB-E1RJ-L2-POAS	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), support power over AUTBUS, Power consumption 3W
KYWT -A1M8-E1RJ-L2-POAS	AUTBUS to Ethernet converter, AUTBUS x 1 port, 3 pins M8 interface, 10/100M Ethernet x 1, RJ45 interface, 24-48 VDC (18-72 VDC), support power over AUTBUS, Power consumption 3W
KYWT -A1SA-E1RJ-L2-L2-POAS	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), redundancy power inputs, support power over AUTBUS, Power consumption 3W



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