

## Anybus X-gateway – AB7665

### Ethernet/IP Adapter/Slave - J1939

This Anybus X-gateway provides connectivity between Ethernet/IP and a J1939 Heavy Duty vehicle (CAN) network. The X-gateway appears as an Ethernet/IP slave/adaptor allowing an Ethernet/IP master/scanner to read or write data from the J1939 network.

HMS provides the X-gateway with a free Windows based configuration tool (BWConfig). This PC based software allows the user to map J1939 parameter (PGN) data into a range of memory addressable through the X-gateway Ethernet/IP interface.



Configuration of the X-gateway is simple using BWConfig and consists of setting up an I/O table containing selected J1939 PGNs and the rate that each will be read or written from the J1939 network. BWConfig will then automatically map the I/O table to a range of addresses accessible from the X-gateway Ethernet/IP interface. The configuration is downloaded from the PC to the X-gateway via an RS232 connection and is saved in FLASH memory.

#### Target Industries:

- \* Electric Power Generation
- \* Oil & Gas
- \* Marine
- \* Defense
- \* Heavy Duty, Construction & Agricultural Vehicles
- \* Testing & Validation
- \* Any Diesel Engine based system supporting J1939

#### KEY FEATURES

- DIN-rail mountable - PE via DIN-rail
- Wide power supply range (12-30 VDC)
- Configuration via a Windows-based PC software tool (BWConfig)
- Rugged IP20 aluminium enclosure
- Supports FLASH field upgrades
- UL and ATEX certification for Ex Hazardous Locations
- Transmission and reception of all types of J1939 messages, including PDU1, PDU2, broadcast and destination specific.
  - J1939 Transport Protocol for transmission and reception of large messages (9 - 1785 bytes). Both connection based (RTS/CTS) and broadcast (BAM) are supported.
- Ethernet/IP 10/100 Mbit full duplex operation

#### TECHNICAL SPECIFICATIONS

Size: 126 mm x 110 mm x 42 mm

Power Supply: 12-30 VDC

Temperature: 0-65°C

Current Consump: Max 300 mA

---

Baud Rate: 10/100 Mbit autodetect on Ethernet/IP

---

Mech Rating: IP20 / Nema 1

---

Profile Support: SAE J1939 (CAN)

---

Config Method: BW Config (free)

---

Appl Interface: CAN and Ethernet (twisted pair)

---

Ethernet connector: RJ45

---

Config connector: 9-pole DSUB

---

UL certification: E203225, Listed 67AM, UL-1604 Class 1, Div 2, GP  
A, B, C, D, Temp Code T4

---

ATEX certification: ATEX 135419, II 3 G, EEx nL IIC T4, DEMKO 03

---

Power supply  
connect: 2-pole 5.08 mm Phoenix pluggable screw connector

---

CAN J1939  
connector: 5-pole 5.08 mm Phoenix pluggable screw connector

---

Order Code: -AB7665