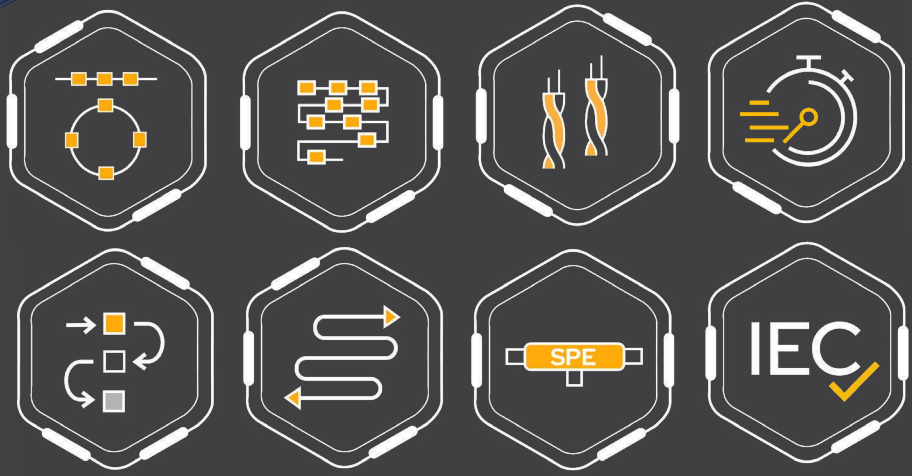
AUTBUS

A Mighty Multidrop Fieldbus

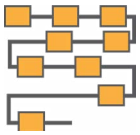


www.autbus.org

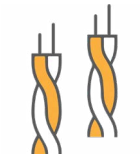
What is AUTBUS

AUTBUS is a new IEC standardized industrial broadband fieldbus invented by the company Kyland. AUTBUS can be used with balanced cables such as twisted single pair cables or unbalanced cables such as coaxial cables. With a qualified twisted pair cable, up to 254 multi-drop data network nodes can be reached over a distance of up to 500 meters, at a data transmission speed of 100Mbit/s. On physical layer, AUTBUS uses OFDM technology which make it a perfect solution for communication technology in demanding environments. With its characteristics of broadband, low latency and determination, AUTBUS is predestined for the field of industrial wired data communication. In addition, AUTBUS supports data tunnelling, with which, e.g., Ethernet-based transmission protocols as well as other communication protocols like CAN Bus can be transmitted transparently from one data connection point to another via the passive multi-drop data network without translating these protocols.

Key Features

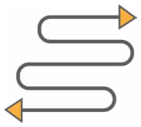


Up to 254
multidrop nodes



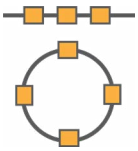
2 wire twisted pair cable
(polarity-none sensitive)

100Mbps high
data bandwidth



Up to 500
meters distance

Real-time
deterministic



Bus and
Ring Topology

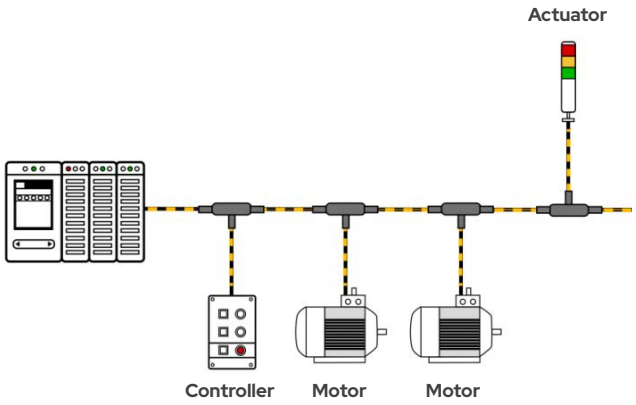
Multi-bus-protocol
tunneling Ethernet,
EtherNet/IP, Modbus, CAN...

SPE System Alliance
cables & connectors
compatible

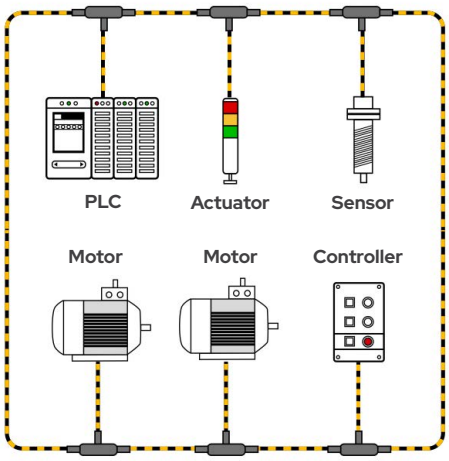
International Standard

The AUTBUS is IEC standardized and listed under the number **IEC 61158 Type 28** and **IEC 61784 CPF22.** The International Electrotechnical Commission (IEC) is a standardization body for international standards of electrical, electronic, and information technologies to ensure safe, efficient as well as reliability operations.

Technology



Bus Topolopgy

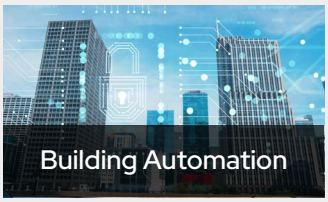


Ring Topolopgy

On physical layer, AUTBUS uses OFDM technology (Orthogonal Frequency Division Multiplexing) to adapt channel conditions and against narrow-band interference which make AUTBUS a perfect solution for industrial communication technology in hash environment. OFDM technology has been used in wired and wireless communication. With its characteristics of broadband, low latency and determination, AUTBUS is predestined for the field of industrial wired data communication. The mission-critical deterministic challenges exist in a variety of industrial applications for which the AUTBUS can be of great benefit.

Applications

Typical applications for the AUTBUS with its multi-drop data network technology can be found in factory automation, public transport, building automation, traffic control systems and also for charging station parks for electric vehicles.



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