



B2connect

Datalogger, Switch, Router



-  Robust design
-  Modular structure
-  Options: PoE, Managed + Routing
-  ECE-R10 conform

Description

The B2connect product family offers the highest Ethernet performance for use in public transport vehicles. Due to the robust IP-54 design, the consistent use of M12 connectors for power supply and Ethernet ports as well as an operating temperature range of -40°C to +85°C, all devices are perfectly adapted to the environmental conditions in the vehicle.

The entire product family has a modular design. This means that a wide range of options such as 100Mbit, 1Gbit, Power over Ethernet, management and routing can be easily combined. All variants meet the common norms and standards for vehicle use such as CE and ECE-R10.

Variants

Variant	Numbers of ports		Available Options			
	100MB	1Gbit	PoE	Manag	APC	KOM
		-	✓	✓	✓	✓
		2	✓	✓	✓	✓
		10	✓	✓	✓	✓

Option PoE

All versions are available with PoE option PoE 802.3af / PoE+ 802.3at. A maximum of 60 watts is available for 8 ports.

Option CPU (Smart Switch)

Features:

- ARM-CPU, 1 GHz
- 512 MB RAM
- 4GB eMMC
- 1 GB microSD
- USB Port
- USB-C Port (Service)
- Configuration via web interface
- DHCP Client/Server
- Routing
- Firewall
- VPN

Option COM (communication modul)

Features:

- WLAN (AP/client)
- LTE
- GNSS (GPS/Galileo/Beidou/Glonass), gpsd Server

Option APC (Automated Passenger Counting)

Features:

- IBIS
- 5x Door contact input
- Odometer input
- 2x Digital output (galvanically isolated)

Technical data

Power port: M12 A-coded

Ethernet ports: 100MBit / M12 D-coded (802.3 / 802.3u)
1GBit / M12 X-coded (802.3 / 802.3u / 802.3ab)

Switch features:

16k MAC Adress list size
2Mbit Packet buffer size
10kByte Jumbo frame support
802.3az Energy efficient ethernet (EEE)

Rated voltage: 24 ... 36VDC (12 ... 48V)

Rated power: 7W (without PoE, all ports activ)
70W (with 60W PoE)

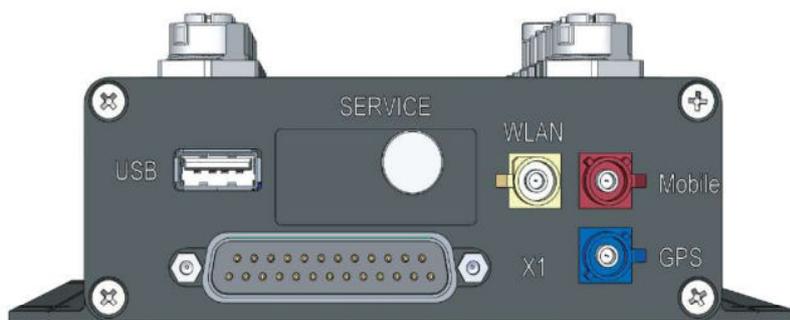
Housing: Aluminum

Dimensions: W249,5 x D130 x H51.5 mm

Weight: ca. 950g (depends on variant)

Standards: ECE-R10, CE, EN50155, EN45545

MTBF: 300.000 h (25°C) / 150.000 h (40°C)



Interfaces of the APC add-on modul

WE
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AHEAD



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