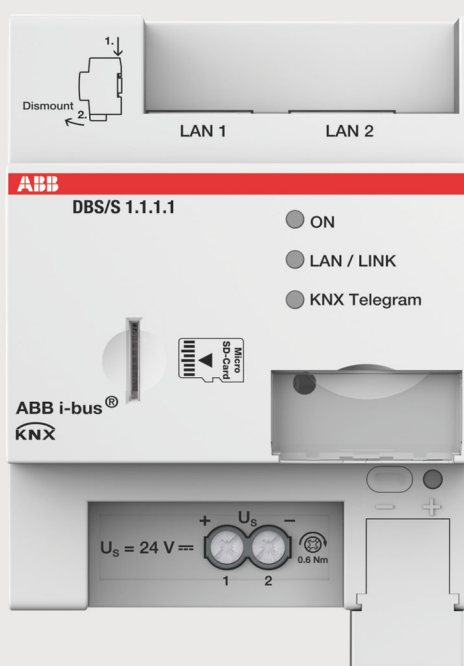# Technical data
ABB i-bus® KNX
DBS/S 1.1.1.1
IoT Dashboard Server

1 Product description

Fig. 1: Product overview

The IoT Dashboard Server is a modular DIN-Rail component (MDRC) in Pro M-Design. The device is intended for mounting in installation distributors on 35 mm mounting rails. It serves as a control and communication device and for the representation and operation of standard KNX functions.

The device requires a supply voltage US (9 - 36 V DC), which is supplied via an external SELV power adapter. The device is ready for use after the direct current supply is connected. The connection to the KNX bus line is optional.

The physical KNX address can be assigned via the Engineering Tool Software (ETS). The software IoT Dashboard Tool for the configuration of the IoT Dashboard Server is available for downloading free of charge (http://new.abb.com/low-voltage/products/building-automation/product-range). The information from the building can be displayed via the IoT Dashboard software. The parameters are set via the IoT Dashboard Tool.

Additional product features:

- Logically arranged dashboard
- Simple control of KNX functions in the building
- Scenes and schedulers can be edited and/or adjusted by the end customer
- Overview of messages in the notification center
- Display of alarm messages
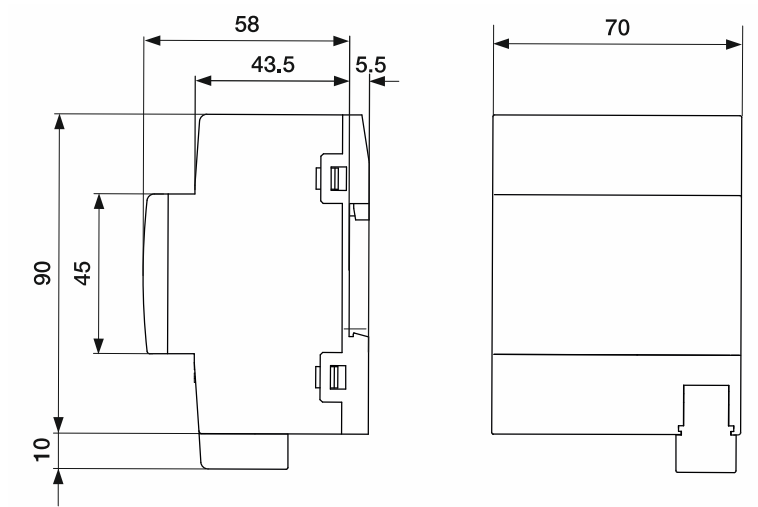
1.1 Dimensional drawings

Fig. 2: Dimensions of the device

All dimensions are in millimetres.

Mounting in installation distributors on 35 mm mounting rails.
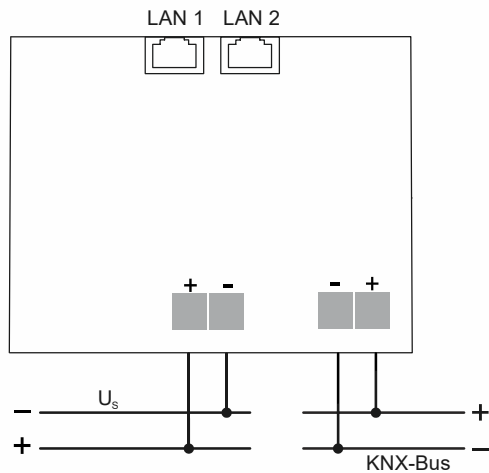
1.2 Electrical connection

Fig. 3:   Electrical connection

Designation	Function
Bus connection terminal	The connection to the KNX bus is made with the enclosed bus connection terminals.
Supply voltage U_S	The supply voltage U_S is supplied via an external SELV power adaptor.
LAN 1 connection (10/100/1000 Base-T)	The connection to the IP network is established via a connection with RJ 45 plugs.
LAN 2 connection (10/100 Base-T)	The connection to the IP network is established via a connection with RJ 45 plugs.

Notice
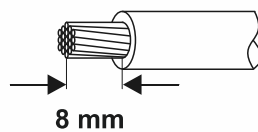The terminal designation is located on the housing.

Supply voltage U_S

8 mm

Fig. 4:   Skinning length
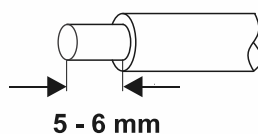
Skinning length: 8 mm

Bus connection terminal

5 - 6 mm

Fig. 5:   Skinning length

Skinning length: 5 - 6 mm

2 Technical data

Designation	Value
Power supply	
	9 - 36 V DC, Standard 24 V DC SELV (-10% / +10%)
Power consumption of device	5 W max.
Screw-type terminal with combi-head (PZ 1)	Single-wire: 0.5 - 2.5 mm (2x 0.5 - 1.5 mm²) Fine-wire 0.5 - 2.5 mm² (2x 0.5 - 1.5 mm²)
Wire end sleeve	Without / with plastic sleeve 1 wire without: 0.5 - 2.5 mm² 1 wire with: 0.5 - 1.5 mm² 2 wires without: 0.5 - 0.75 mm² 2 wires with: 0.5 - 0.75 mm²
TWIN wire end sleeve	0.5 - 2.5 mm²
Tightening torque	Max. 0.6 Nm
Wire stripping	8 mm
KNX connection	
Power supply (via bus line)	24 VDC
Power consumption, bus	< 10 mA
Bus connection terminal	Screwless supplied (0.6 - 0.8 mm²)
Line type	J-Y(St)Y, 2 x 2 x 0.8 mm
Wire stripping	5 - 6 mm
LAN connections	
LAN connection 1	10/100/1.000 BaseT, IEEE 802.3 via RJ45 plug
LAN connection 2	10/100 BaseT, IEEE 802.3 via RJ45 plug
Cable type	Shielded network cable of category: at least CAT 5e S/UTP, F/UTP
Micro SD card reader	
Type	microSD, microSDHC, microSDXC (not included in the scope of delivery)
Speed	Class 2, 4, 6 and 10
Storage capacity	Up to 2 TB
CPU	NXP iMX6DL ARM, Dual Core @ 1GHz
Operating and display elements	
Programming LED (red)	Assignment of the KNX physical address
Programming button	Change into programming mode

LED ON (green)	Display of operational readiness
LED LAN / Link (yellow)	Display of network connection
LED telegram LED (yellow)	Display of KNX telegram traffic
Reset button	Device reboot / Reset
Temperature range	
During operation (Tu)	-5°C - +45°C
Storage	–40°C - +85°C
Transport	–25°C - +70°C
Protection rating	IP20
Isolation category	
Overvoltage category	III to DIN EN 60 664-1
Pollution degree	II to DIN EN 60 664-1
Air pressure	Atmosphere up to 2,000 m
Maximum air humidity	95 % (no condensation allowed)
Design	
Modular installation device (MDRC)	Modular installation device, Pro *M* design
Dimensions	70 x 90 x 64.5 mm (H x W x D)
Mounting width in space units	4 x 17,5 mm
Mounting depth	63.5 mm
Mounting	35 mm mounting rails (DIN EN 60 715)
Installation position	Any
Weight	0,17 kg
Housing / colour	Plastic housing, gray
CE mark	IEC 60669-2-5 (In accordance with the EMC directive and low voltage directive)

Tab.1:   Technical data

Note
A detailed description of the application can be found in the technical manual.
You can download it free of charge at http://new.abb.com/low-voltage/products/building-automation/product-range/abb-welcome.
For programming you need ETS and the latest firmware version.

ABB

Busch-Jaeger Elektro GmbH
A member of the ABB Group

PO box
58505 Lüdenscheid

Freisenbergstraße 2
58513 Lüdenscheid

www.BUSCH-JAEGER.com
info.bje@de.abb.com

Central sales service:
Tel.: +49 2351 956-1600
Fax: +49 2351 956-1700

2CKA001473B9872