

Technical Sheet For Air1 Server

BTAS-KNX/485.2

The worldwide STANDARD for home and building control

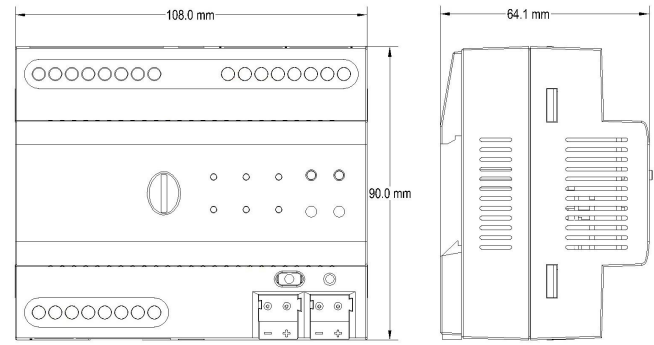
CHARACTERISTICS

- Multi-protocol integration, compatible with home and building automation protocols, support to any kind of system or device.
- Manage both standard and proprietary protocols at the same time, realize freedom of brand and choice.
- Communicate with all of the installations devices for security, access control, temperature control and audio / video via specific proprietary protocols.
- Allow communication between all protocols supported by AirHome. It can connect systems based on different buses like KNX, Modbus, 485 and other protocols.
- Provide AirHome management software, professionally configured applications for smart phone, tablet and PC.
- Support design auto-task quickly, and control it in any time.
- Enrich smart home via recording scene, week scheduling and analysis & charts.
- Perform many complex operations independently, to further minimize energy consumption and enhance the comfort of the home or building.

PARAMETERS

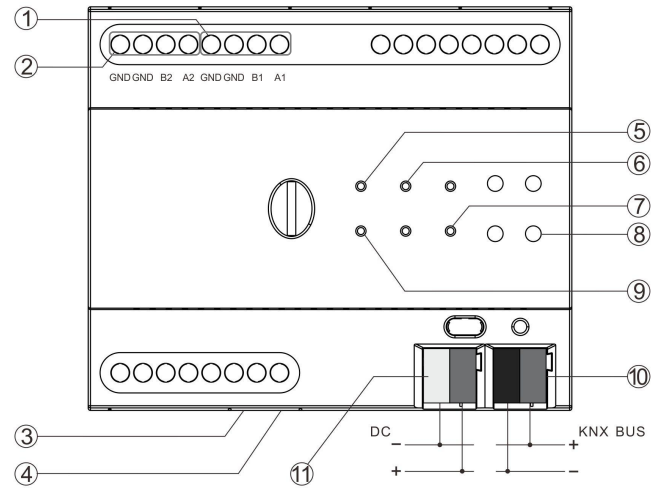
Power Supply	Bus voltage	21~30V DC , via the KNX bus
	Bus current	<12mA 30V DC
	Bus consumption	<360mW
Auxiliary Supply	Voltage	9~36V DC
	Current	<123mA 24V DC, <113mA 30V DC
	Consumption	<3.4W
Performance	RAM	512MB
	SD card	16GB
	CPU	Quad-core cortex A7
	Connections	KNX
	Auxiliary supply	Bus connection terminal(Yellow/White)
	RS485 -1/2	Screw terminals, Torque 0.4N-m Wire Range Multi-core 0.2-1.5mm ² Single core 0.2-2.5mm ²
	LAN	RJ45 socket for 10/100 bps
Operation and display	USB2.0	USB socket
	LAN LED	Flashing, communicates with network
	KNX LED	Flashing, communicates with KNX
	RS485-1 LED	Flashing, communicates with RS485-1
	RS485-2 LED	Flashing, communicates with RS485-2
	POWR LED	Always on, power supply is normal
	Reset button	Click to reset device
Temperature	Operation	-5°C ... + 45 °C
	Storage	-25 °C ... + 55 °C
	Transport	- 25 °C ... + 70 °C
Ambient	Humidity	<93%, except dewing
Mounting		Standard 35mm DIN rail installation

DIMENSIONS



Model	Dimension	Weight
BTAS-KNX/485.2	108×90×64.1mm	0.18kg

DESCRIPTIONS



- ① RS485-1 connection terminal, include A1, B1, GND*2
- ② RS485-2 connection terminal, include A1, B1, GND*2
- ③ LAN socket and LAN LED
- ④ USB socket
- ⑤ RS485-2 LED
- ⑥ RS485-1 LED
- ⑦ Power LED
- ⑧ Rest button
- ⑨ KNX LED
- ⑩ KNX bus connection terminal
- ⑪ Auxiliary supply connection terminal

INSTALLATION FIGURE

The devices are suitable for installation on the distribution boards with 35mm DIN rail which complies with DIN EN 60715 or a small box in order to facilitate quick installation of the device. Must ensure that the device operation, testing, detecting, maintenance correctly.

IMPORTANT INFORMATION

Installation and commissioning of the device may only be carried out by trained electricians. The relevant standards, directives, regulations and instructions must be observed when planning and implementing the electrical installation.

- Protect the device against moisture, dirt and damage during transport, storage and operation!
- Do not operate the device outside the specified technical data (e.g. temperature range)!
- The device may only be operated in closed enclosures (e.g. distribution boards).

When the device becomes soiled, it may be cleaned with a dry cloth. If this does not suffice, a cloth lightly moistened with soap solution may be used. On no account should caustic agents or solvents be used.

Air1 Server 网关技术规格书

适用型号:

BTAS-KNX/485.2

国际标准的家庭和楼宇控制系统

产品功能

- 多协议集成，兼容家庭和楼宇自动化协议，支持连接任何系统或设备。
- 同时管理标准和专有协议，实现品牌 and 选择自由。
- 支持通过特定的专有协议与所有安装的设备进行通信，实现安全性、访问控制、温度控制和音频/视频。
- 允许 AirHome 支持的所有协议之间进行通信，可以连接基于不同总线的系统，比如 KNX、Modbus、485 等协议。
- 提供 AirHome 管理软件，专业配置用于智能手机，平板电脑和 PC 的应用程序。
- 支持快速设计任何自动化任务，随时随地控制专属智能安装。
- 通过场景录制、周计划，图标分析等实现更加丰富的智能家居功能。
- 能够独立执行大量复杂的操作，进一步降低能耗并增强楼宇的舒适度。

技术参数

电 源	总线电压	21~30V DC, 由总线提供
	总线电流	<12mA 30V DC
	总线功耗	<360mW
辅助电源	电压	9~36V DC
	电流	<123mA 24V DC, <113mA 30V DC
	功耗	<3.4W
性 能	内存	512MB
	SD 卡	16GB
连 接	CPU	四核处理器, cortex a7 系列
	KNX	总线连接端子 (红/黑)
	辅助供电	总线连接端子 (黄/白)
	RS485-1/2	螺丝接线柱连接, 扭力矩 0.4N·m 线径多芯 0.2-1.5mm ² , 单芯 0.2-2.5mm ²
	LAN	RJ45 端口, 10/100 bps
	USB2.0	USB 端口

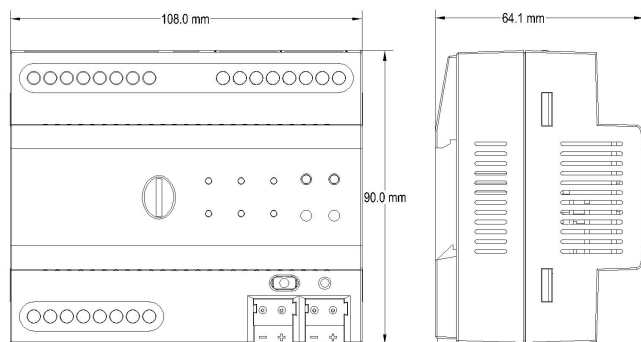
操作和指示	LAN LED	闪烁, 指示设备与网络进行通信
	KNX LED	闪烁, 指示设备与 KNX 总线进行通信
	RS485-1 LED	闪烁, 指示设备与 RS485-2 进行通信
	RS485-2 LED	闪烁, 指示设备与 RS485-2 进行通信
	电源 LED	常亮, 指示电源供电正常
	重置按钮	按下重置设备

温度范围	运行	-5 °C ... + 45 °C
	存储	-25 °C ... + 55 °C
	运输	-25 °C ... + 70 °C

环境条件 湿度 <93%, 结露除外

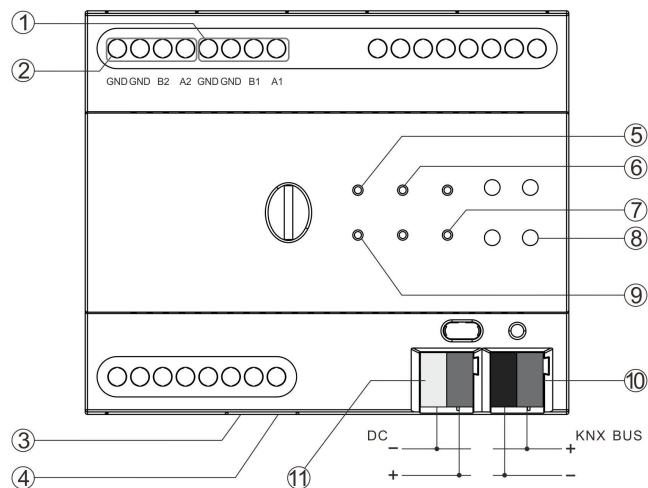
设 计 标准 35mm DIN 导轨安装

尺寸规格



型号	尺寸	重量
BTAS-KNX/485.2	108×90×64.1mm	0.18kg

接线图



- ① RS485-1 接线端子, 包括 A1, B1, GND*2
- ② RS485-2 接线端子, 包括 A1, B1, GND*2
- ③ LAN 端口和 LAN LED
- ④ USB 端口
- ⑤ RS485-2 LED
- ⑥ RS485-1 LED
- ⑦ 电源 LED
- ⑧ 重置按钮
- ⑨ KNX LED
- ⑩ KNX 总线连接端子
- ⑪ 辅助供电连接端子

安装说明

此设备为了方便快速安装到配电箱或小盒子里面, 根据 EN 60715 系列设计成标准模数化设备, 能安装在 35 毫米丁导轨上。安装时必须确保设备操作、测试、检测、维护、维修正确无误。

重要提示

安装和调试设备只能由合格的熟练电工来操作。在计划与实施电气安装的过程中相关的标准、指令、规则和指示都要严格执行。

- 需要避免器件在运输、储存、使用的过程中受潮、脏污以及受损。
- 不要使器件运行在指定的技术指标之外 (例如温度范围)。
- 器件只可以运行在封闭的环境中 (例如配电箱)。

当设备脏污时, 只可以使用干燥的布来清洁。如果这样不足以清洁干净, 可以使用湿布蘸少许肥皂溶液轻轻擦拭。绝不能使用碱剂或者腐蚀性溶剂。