

1Home Server KNX Pro Datasheet



1Home Server is the modern brain of a smart home system.

Visualization

Server enables a fully local integration with Apple Home, Google Home, Samsung SmartThings, Home Assistant and other smart home apps and voice control interfaces via the industry standard protocol Matter.

Local first

1Home Server is configured completely locally via an embedded web interface. The device runs local first and will run uninterrupted even if the internet connection is lost.

Remote access*

For a remote configuration, the 1Home Server can be paired with 1Home Remote Dashboard (remote.1home.io) where the customer or the integrator can access the device remotely.

Automatic ETS device detection*

Automatic ETS device detection saves time importing your KNX configuration, without the need to type hundreds of group addresses and devices by hand.

Automatic issue detection

Detects configuration issues and saves you time troubleshooting.

ETS remote programming*

Program KNX via ETS remotely.

1Home Automations

Runs simple or complex automations through an easy to use interface.

Matter Controller

Integrates 100s of IoT devices via Matter as if they would be one with KNX (coming in Q3 '24).

*This feature requires an active internet connection

Installation instructions

To get started or learn more about the device, visit 1Home Server documentation.

Documentation: <https://www.1home.io/docs>

Technical specifications

Hardware

- Processor: Broadcom BCM2711 quad-core Cortex-A72 (ARM v8) 64-bit, up to 1.5 GHz
- Memory: 1 GB LPDDR4
- Storage: on-board 8 GB eMMC (4 GB usable for user storage)

Mechanical data

- Housing
 - Material: Plastic (PPO)
 - UL94 class: V0
- Mounting: DIN (EN 60715) rail, width: 4M (72 mm)
- Weight: approx. 150 g

Power supply

- External power supply: 12...30 VDC / alternative; DC barrel power supply (12 VDC, 1 A)
- Power consumption
 - Typical: 2-3 W @30 VDC
 - Max: 5 W @30 VDC

Controls and indicators

- RGB multi-color status LED
- Multifunctional mono-color red LED
- Multifunctional button
- Reset button

KNX

- Medium: Twisted Pair (KNX TP1-256)
- Interface protocol: cEM1

Environmental requirements

- Ambient temp. operating: -5...+45°C
- Rel. humidity (non-condensing): 5...93%

Network Connectivity

- Gigabit Ethernet LAN (1 Gbit/s)
- IEEE 802.3: 1000BASE-T, 100BASE-TX, 10BASE-T
- IPv4 & IPv6 support
- Supported network protocols ARP, ICMP, ICMPv6, IGMP, UDP/IP, TCP/IP, DHCP, NTP, mDNS, DNS-SD, HTTP
- Up to 4 KNXnet/IP Tunneling connections simultaneously

Connectors

- KNX TP Bus connector (Red / Black)
- Power
 - AUX connector (Yellow / White) for external power supply , or;
 - DC barrel socket
- Ethernet LAN RJ45 socket

CE marking according to

- EMC directive 2014 / 30 / EU
- RoHS directive 2011 / 65 / EU
- EN 55014-1:2017
- EN 61000-4-2:2009
- EN 61000-4-3:2006 + A1:2008 + A2:2010
- EN 61000-4-4:2012
- EN 61000-4-5:2014
- EN 61000-4-6:2014

Packaging specifications

EAN: 3830073770138

WEEE number: DE48929946

Packaging dimensions:

- Product: 12.5 × 13 × 7 cm
- Transport: 13 × 13.5 × 7.5 cm

Included in the box:

- 1Home Server KNX Pro
- Welcome card
- Device label (serial No., default credentials, Matter pairing code)
- Power supply and network cable not included!