ActiveAhead Controller - SolidRun N6

The Helvar ActiveAhead Controller (AAC) is a small formfactor computer with leading performance and security. It is based on a SolidRun N6 commercial hardware platform and is equipped with Helvar application software.

AAC uploads the data from the ActiveAhead lighting system to Helvar's Cloud Platform via Ethernet or Wi-Fi. Authorised users can access the lighting system data via a browser-based web interface or a REST API.

Key Features

- Based on SolidRun N6 HW Platform
- Connectivity to Helvar Cloud Platform
- Easy setup and configuration
- Secure connection
- Wall mounting option
- Meanwell GE40-12 P1J 12 VDC, 40 W AC/DC power supply included
- EU and UK plug provided

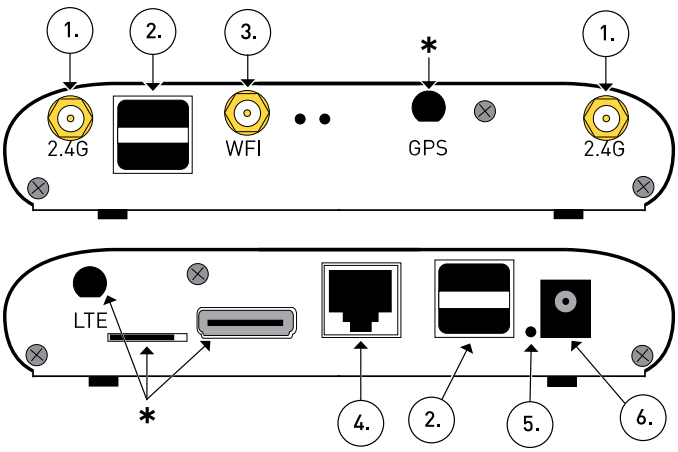
Security

The access to the web interface and the APIs are both encrypted and authenticated.

Client and cloud data transfer is secured by HTTPS protocol.

Controller to cloud communications uses the MQTT protocol, which is secured by leveraging TLS 1.2 at the transport layer. The cipher suite used for TLS is ECDHE-ECDSAAES128-GCM-SHA256. For authentication between controller and cloud, AWS (Amazon Web Services) Signature Version 4 is used.

Connections

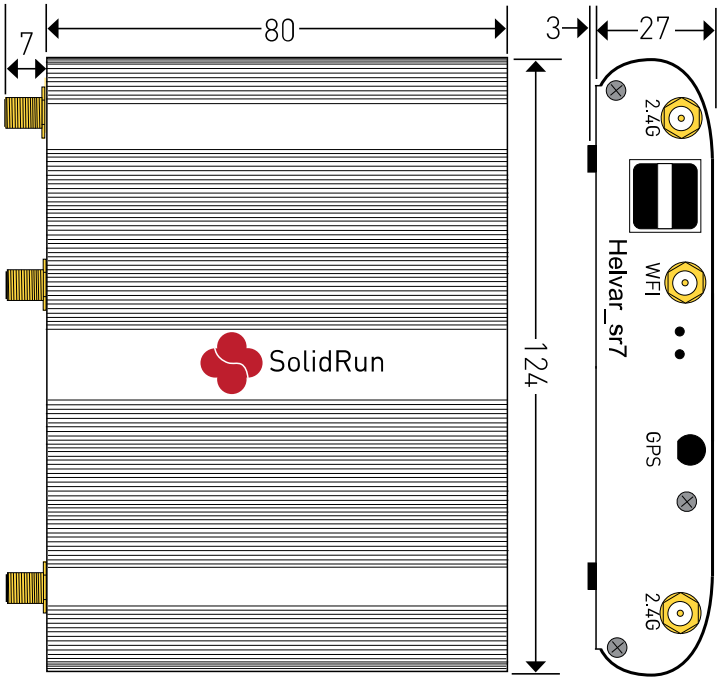


1. BT
2. 2 x USB
3. WiFi
4. RJ45
5. Power Indicator
6. Power Socket

* Do not use

Helvar

Dimensions (mm)



Technical Data

Power	
Input voltage:	12 V DC

Connectivity	
LAN:	Ethernet RJ45 10/100/1000 (max 470 MB/s)
Wi-Fi:	Wi-Fi antenna
Bluetooth:	Bluetooth 2.0 (2.4 GHz), Dual Bluetooth Low Energy 4.2 Bluetooth Low Energy 4.2
Bandwidth Download / Upload Speed:	1MB
Additional Connectivity:	USB 4G Flash Drive compatable.
Maximum Cloud Interruption Period: Note: Full device specification cannot be secured if interputed.	1 day offline

I/O interface	
HDMI:	1 × HDMI-out
USB interface:	4 x USB 2.0
LED:	Bi-colour (Red, Green) LED

Mechanical data	
Dimensions:	120 mm × 80 mm × 30 mm
Mounting:	Wall mount with dedicated wall bracket
Weight:	325 g

Operating and storage conditions	
Ambient temperature:	+5 °C to +50 °C
Relative humidity:	Max. 85 %, noncondensing
Storage temperature:	–5 °C to +50 °C

Conformity and standards	
Conformity:	CE UKCA
EMC:	EN 55032 EN 55024
RED:	EN 301 489-1 EN 301 489-17
Safety:	EN 60950-1
Environment:	2011/65/EU (RoHS) 2012/19/EU (WEEE)