

Elevate Aisle Containment Host Controller Box



Product Overview

The Elevate Cold Aisle Control Host is a robust solution designed to seamlessly integrate data collection, storage, and local display for effective monitoring and management of cold aisle environments. Built on a Linux-based platform and powered by an ARM Cortex A9 processor with 1GB of memory, this Host Controller delivers a stable and reliable platform for a variety of control and monitoring applications.

With versatile connectivity options, the Elevate Cold Aisle Control Host includes six RS485 ports, HDMI support for external displays, and four digital input (DI) and four digital output (DO) ports. It also features dry contacts for flexible sensor integrations. Capable of supporting up to 35,000 sensors through daisy chaining with additional controllers, this solution ensures scalable, efficient, and centralized cold aisle management.

Ideal for businesses seeking to optimize data centre operations, the Elevate Cold Aisle Control Host helps reduce energy consumption, enhance cooling efficiency, and improve overall data centre performance.

- ✓ Equipped with multiple types of interfaces
- ✓ Supports HDMI output
- ✓ Each port is equipped with security protection
- ✓ Includes 32GB of storage and supports expansion
- ✓ Supports alarms and web page interface
- ✓ Supports expansion of up to 35 000 sensors

Product Specifications

Feature	Values
Basic Spec	
Processor	ARM Cortex-A9
Storage	32G, supports TF card expansion
Operating System	Linux
Memory	1G
Power	
Input	1xAC220/DC240
Output	2xDC12V1A
Power Consumption	10W
Lightning Protection	2KV/1KA
Network	
Ethernet	1x1000/100M
Lightning Protection	2KV/1KA
Interface	
Serial Port	6xRS485(RJ45, Signal+Power Supply, 12V/100mA)
External Interface	1xHDMI, 1xTF, 3xUSB2.0
DI	4xDI(Dry Contact, RJ45)
DO	4xDO(2xDry Contact+2xWet Contact, RJ45)
Others	
Operating Temp.	-40~85 C
Operating Humidity	5%~95%, Non-condensing
Storage Temp.	-40~125 C
Dimension	482mmx208mmx44mm

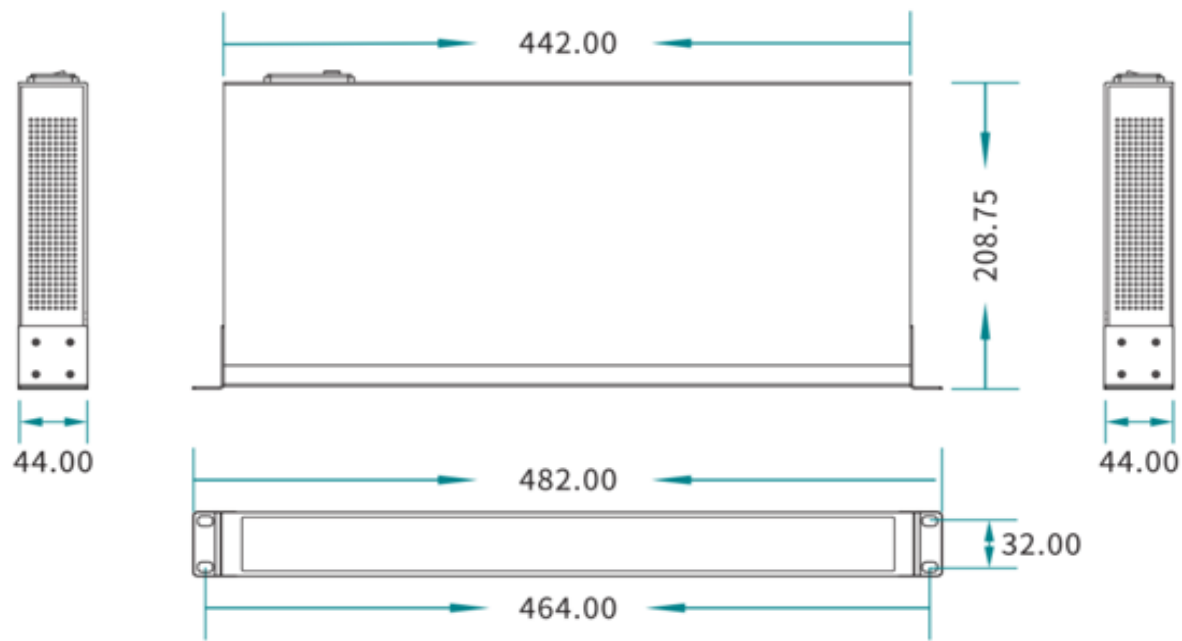
Product Features Explained

- ✓ Seamlessly integrate data collection, storage, and local display
- ✓ Powered by an ARM Cortex A9 processor with 1GB of memory
- ✓ Multiple Interfaces including six RS485 ports, HDMI support for external displays, and four digital input (DI) and four digital output (DO) ports for sensors.

Product Standards

Applicable standard	Description
Directive 2008/98/EC (WFD)	Waste Framework Directive — compliant. Implemented in the UK through the Waste (England and Wales) Regulations 2011 (SI 2011 No. 988).
ECHA SCIP Database	Compliant; product does not contain SVHCs (Substances of Very High Concern) as defined under REACH Article 33(1). Submission obligations met under EU REACH and UK REACH.
Regulation (EU) 2019/1021 (POPs)	EU Regulation on Persistent Organic Pollutants — compliant. For Great Britain, compliance is aligned with the Persistent Organic Pollutants (Amendment) (EU Exit) Regulations 2020 (SI 2020 No. 1355).
Directive 2011/65/EU (RoHS II)	Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment — compliant. Applies within EU member states.
Directive (EU) 2015/863 (RoHS III)	Amending Directive 2011/65/EU to add four phthalates (DEHP, BBP, DBP, DIBP) to Annex II — compliant.
UK SI 2012 No. 3032	The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012 (UK RoHS) — compliant for Great Britain. Retained EU law, as amended by the Product Safety and Metrology (Amendment etc.) (EU Exit) Regulations 2019.

Product Drawing



Part Number Table



Part Number	Description
579-101	Elevate Cold Aisle Host Controller Box