

Emaldo® Horizon

Emaldo Horizon is the intelligent energy platform powering the entire Emaldo One / Home ecosystem. This compact, smart gateway sits at the heart of the home, connecting seamlessly with Emaldo Flow, Emaldo Power Series, leading third-party heat pump brands smart meters, and home energy systems.

But Emaldo Horizon is more than just hardware – it's the intelligence behind the system. Through advanced cloud services and real-time energy optimisation, Horizon brings every part of the home energy ecosystem together into one simple experience via Emaldo's intuitive customer app.

Emaldo Horizon intelligently:

- Optimises heat pump operating modes for maximum efficiency and comfort.
- Connects directly to home smart meters to coordinate energy consumption, storage, and export strategies.
- Integrates with third-party inverters to intelligently manage and dispatch self-generated solar power.
- Creates a fully connected energy ecosystem across heating, storage, and home energy management.

Emaldo Horizon transforms connected devices into one intelligent, self-optimising energy system – helping homeowners maximise efficiency, reduce costs, and accelerate energy independence.



General

Product Name: Emaldo® Horizon

Product Type: Energy Gateway

Product Model: Horizon

Dimensions: 165mm × 115mm × 25mm

Enclosure Material:

Flame Retardant VI PC +ABS Material

Protection Rating: IP31

Protection Function:

Short-circuit Protection, EMC (CLASS B)

Power Supply Type: Type-c Power Interface 5V=2A

Power Switch:

Single click power on, Double click power off

Antenna Type: Omnidirectional Antennas

Communication Protocol

RS485*3: Meter, Inverter, Heat Pump

LAN1 (RJ45/100M Ethernet): Router

LAN2 (RJ45/100M Ethernet): Meter, Inverter, Private Networking

BLE 5.4 +Wi-Fi6: 2.4G/5G

4G: Built-in eSIM, micro SIM card

Wi-Fi_Halow

LoRa

Environmental Parameters

Applicable Scenarios: Indoor

Operating Temperature: -20°C – +55°C

Operating Humidity: 5% – 80%RH (Non-Condensing)

Operating Altitude: <2000m

Cooling Method: Natural Cooling

Why choose Emaldo®

All-in-One partner: One provider for energy management, products and support.

Installer tools & software: Access the Emaldo® Power Suite for simple system management and monitoring.

Sales & marketing support: Branded materials, campaigns and lead generation support.

Dedicated local support: Technical assistance in local language via phone and email.

Partner benefits: Flexible onboarding, invoicing and shared Grid Rewards revenue.

One connected ecosystem: Hardware, software and services working seamlessly together.

emaldo® one
/home



Emaldo® Horizon

Powering the entire
Emaldo One /Home *ecosystem.*

