UCC

ALPHA INNOVATIONS
Member of CE+T Group

Universal Command & Control edge device
for data reporting & remote control

DISCOVER →

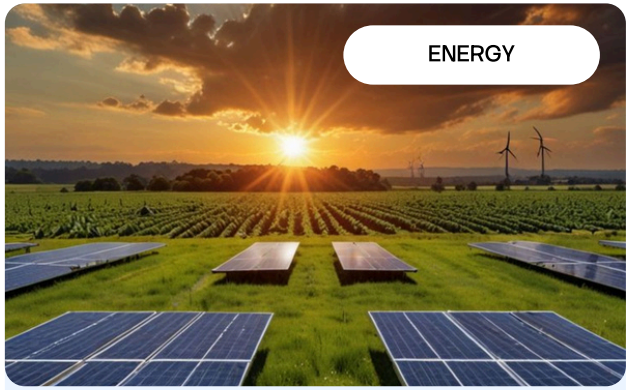
Product Highlights

- Modular
- Customizable
- Rackable
- Universal

Applications Areas

Customer : ALSTOM
Application : Interface security module
Country : Belgium
Expertise : Customized system and multi-site monitoring solution provided

Customer : Telecom provider
Application : Telecom
Country : Worldwide
Expertise : Robust and modulable system for remote control on power rack



Customer : Energy supplier
Application : Co-gen remote control
Country : Belgium
Expertise : Agnostic gateway with multi-site layer connected through an API to their customer platform

UCC

Universal edge device for data reporting & remote control

Customizable, industrial and connected.

The UCC is a universal edge device designed to **interface with any industrial device**, regardless of brand or communication protocol.
It seamlessly connects to our own racks and converter modules, but it is also fully **compatible with third-party converters** from other manufacturers, enabling you to retrieve detailed system data with ease.

A wide range of industrial equipment is already supported, including **solar inverters, power converters, BMS battery, sensors, EV charging stations**, ... from multiple brands.

Our **embedded software, COMPAS**, running on the UCC Core, gives full remote control of the system's parameters.

For advanced **customization**, create your own alarms or select pre-assembled, pre-programmed, and tested configurations ready for immediate deployment. Implement custom logic locally with Python on the UCC, without relying on the Cloud.

Inview MESH consolidates data from all deployed UCC units into a single interface, providing unified monitoring and reporting. Its API enables seamless integration with existing systems and applications.

Specifications

Electrical

Supply	
Input Standard Voltage	18 to 60 Vdc
Power Consumption	3 W nominal - 15W max
UCC Core Related	
12V output	11.4 to 12.6 Vdc
Communication	CAN IN / CAN OUT RS485 / RS 232 USB-A USB-B (Limited function : Ethernet if COMPAS)
ADIO Card Related	
Maximum Input Voltage	0 to 60 Vdc
Shunt input voltage	-60 to 60 mV
Digital input	0 to 12 Vdc [Dry contact] 10 mA max
Digital output (relays)	60 Vdc - 1 A [option 1] 220 Vdc - 2A [option 2]

Features

Modularity	• 4 slots per 1U rack • 1 slot for the UCC Core Module (1 UCC Core required per system) • 3 (or 4) slots for ADIO modules (ADIO 07 - 10 or a specific one) • up to 4 racks (15 modules & 1 UCC core)
Protection	DC input out of range (input fuse)
Communciation Protocol with COMPAS	ModBus, SNMP, CANopen, HTTP(s), MQTT(s), ...
Customization	Specific configuration Python Scripting Specific alarming

COMPAS Safely manage your system from anywhere

Standards

Safety	• CE marked • EN60950
Environment	• RoHS compliant • ETSI EN 300 019-1-1 class 1.2 • ETSI EN 300 019-1-1 class 2.2 • ETSI EN 300 019-1-1 class 3.3
EMC	• ETSI EN 300 386 V1.1.3

Environmental

Operating Temperature	-25 to +70 °C
Storage Temperature	-40 to +85 °C
Humidity Operating	5 to 95 % RH non-condensing
Humidity Storage	5 to 100 % RH non-condensing
Elevation	Up to 2500 m

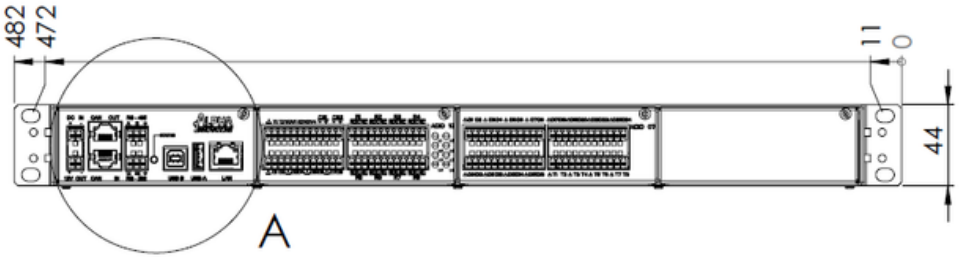
Part Number

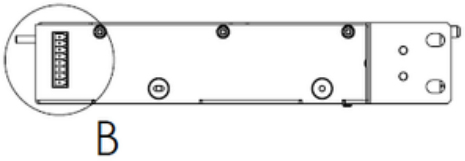
Family	9400 016 00000
Specific Configuration	9400 016 00xxx

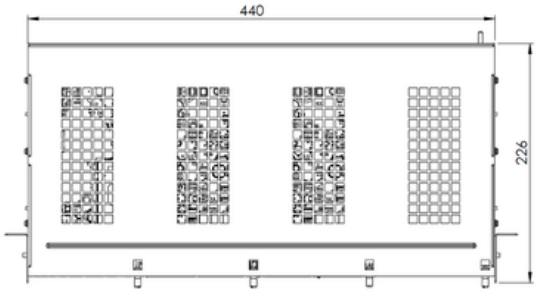
Mechanical dimensions

Dimensions (mm)	40.5 H (1U) x 448 W x 255 D
Dimensions (inches)	1.6 H x 17.6 W x 10 D
Bare Shelf Weight (kg)	2.02 (4.45 lb)
Core Module Weight (kg)	0.21 (0.46 lb)
ADIO Module Weight (kg)	0.20 (0.44 lb)

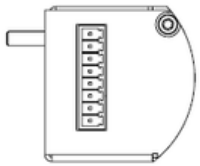
Front view



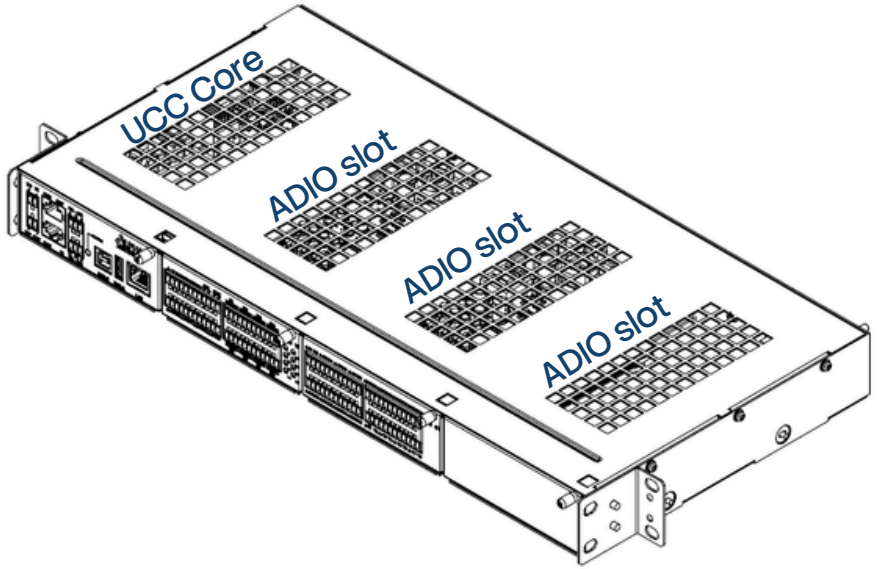




DETAIL A
SCALE 2 : 3



DETAIL B
SCALE 2 : 3



Product overview

Slot block related to our embedded sotfware.

COMPAS

UCC core

- 24 Vdc input
- 12 Vdc output
- USB
- Ethernet
- Terminal block for RS485/RS232

Slot block adding connectivity.

ADIO 07

- 24 digital inputs
- 8 temperature sensor inputs (NTC based)
- Up to 6 plug&play pulse counters

ADIO 10

- 8 digital inputs
- 2 temperature sensor inputs (NTC based)
- 4 Voltage measurement
- 2 Current measurement
- 8 relays
- 8 output for LED alarms

ADIO xx

Custom connectivity slot block on demand.

Accessories :

- Temperature sensor for alarming
- Terminal block
- CAN cable
- Interconnect cable UCC
- Blind plate

More info ?

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