

groov EPIC Chassis

Features

- > Secure mounting for *groov*® I/O modules, power supply, and processor
- > Analog, discrete, and serial modules on the same chassis
- > Mount on a panel or 35 mm DIN-rail
- > Modules rock into place, plug into a module connector, and lock onto the chassis with screw
- > Processor and power supply interlock and screw onto the chassis
- > UL Hazardous Locations approved and ATEX compliant



GRV-EPIC-CHS4

DESCRIPTION

groov EPIC® I/O mounting chassis are designed to hold an intelligent *groov* EPIC processor, power supply, and several I/O modules.

Since *groov* analog, discrete, and serial I/O modules all have the same footprint, customers using a *groov* chassis can mix all these modules on the same chassis. Field devices are wired directly to the top-

mounted connectors on the modules. The module and chassis design allows modules to rock into a specific mounting point on the chassis.

groov EPIC chassis are available in three configurations, accommodating up to 4, 8, or 16 modules.

All *groov* power supplies, voltage converters, adapters, modules, and processors are UL Hazardous Locations approved and compliant with the ATEX, Low Voltage, and EMC CE directives. Each module is factory tested twice before shipment and is guaranteed for life.

SPECIFICATIONS

Specification	GRV-EPIC-CHS16	GRV-EPIC-CHS8	GRV-EPIC-CHS4
Number of module slots	16	8	4
Temperature (operating)	-20 °C to +70 °C	-20 °C to +70 °C	-20 °C to +70 °C
Temperature (storage)	-40 °C to +85 °C	-40 °C to +85 °C	-40 °C to +85 °C
Relative Humidity (non-condensing)	5–95%	5–95%	5–95%
Agency Approvals	UL/cUL (Class 1 Div. 2); CE, ATEX (Category 3, Zone 2), RoHS; DFARS	UL/cUL (Class 1 Div. 2); CE, ATEX (Category 3, Zone 2), RoHS; DFARS	UL/cUL (Class 1 Div. 2); CE, ATEX (Category 3, Zone 2), RoHS; DFARS
Warranty	30 months	30 months	30 months



Part Numbers

Part	Description
GRV-EPIC-CHS4	4-module analog/discrete/serial mounting chassis
GRV-EPIC-CHS8	8-module analog/discrete/serial mounting chassis
GRV-EPIC-CHS16	16-module analog/discrete/serial mounting chassis



Preliminary

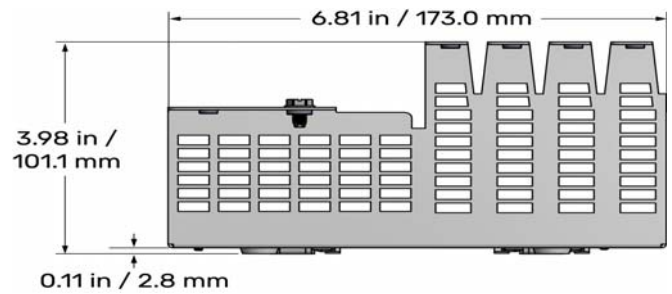
DIMENSIONS: GRV-EPIC-CHS4, GRV-EPIC-CHS8, AND GRV-EPIC-CHS16

All *groov* EPIC chassis have the same width of 5.36 inches (136.2 mm) and depth of 3.98 inches (101.1 mm). The length depends on the specific model. Those lengths are listed in the following table:

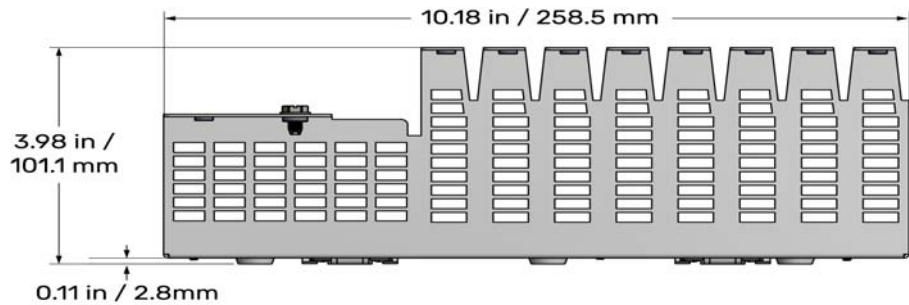
Part Number	Description	Length (inches)	Length (mm)
GRV-EPIC-CHS4	4-module chassis	6.81	173.0
GRV-EPIC-CHS8	8-module chassis	10.18	258.5
GRV-EPIC-CHS16	16-module chassis	16.91	429.6

Depth and Length Dimensions

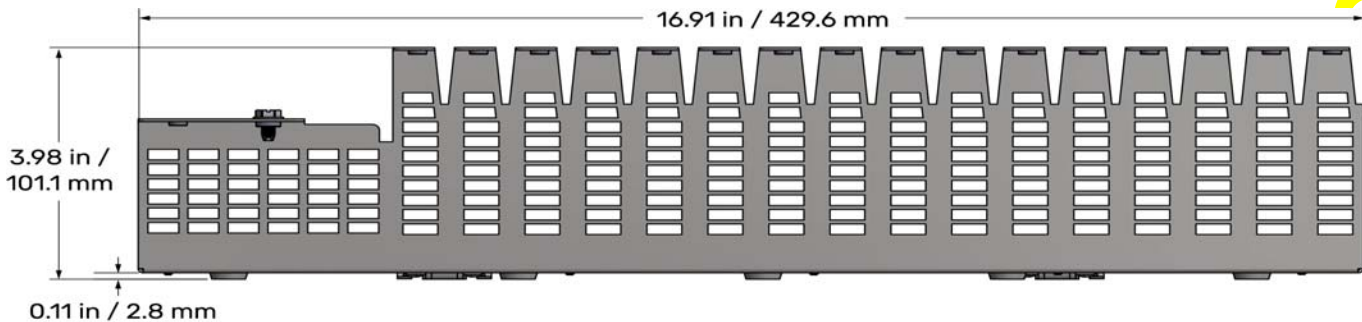
GRV-EPIC-CHS4



GRV-EPIC-CHS8



GRV-EPIC-CHS16

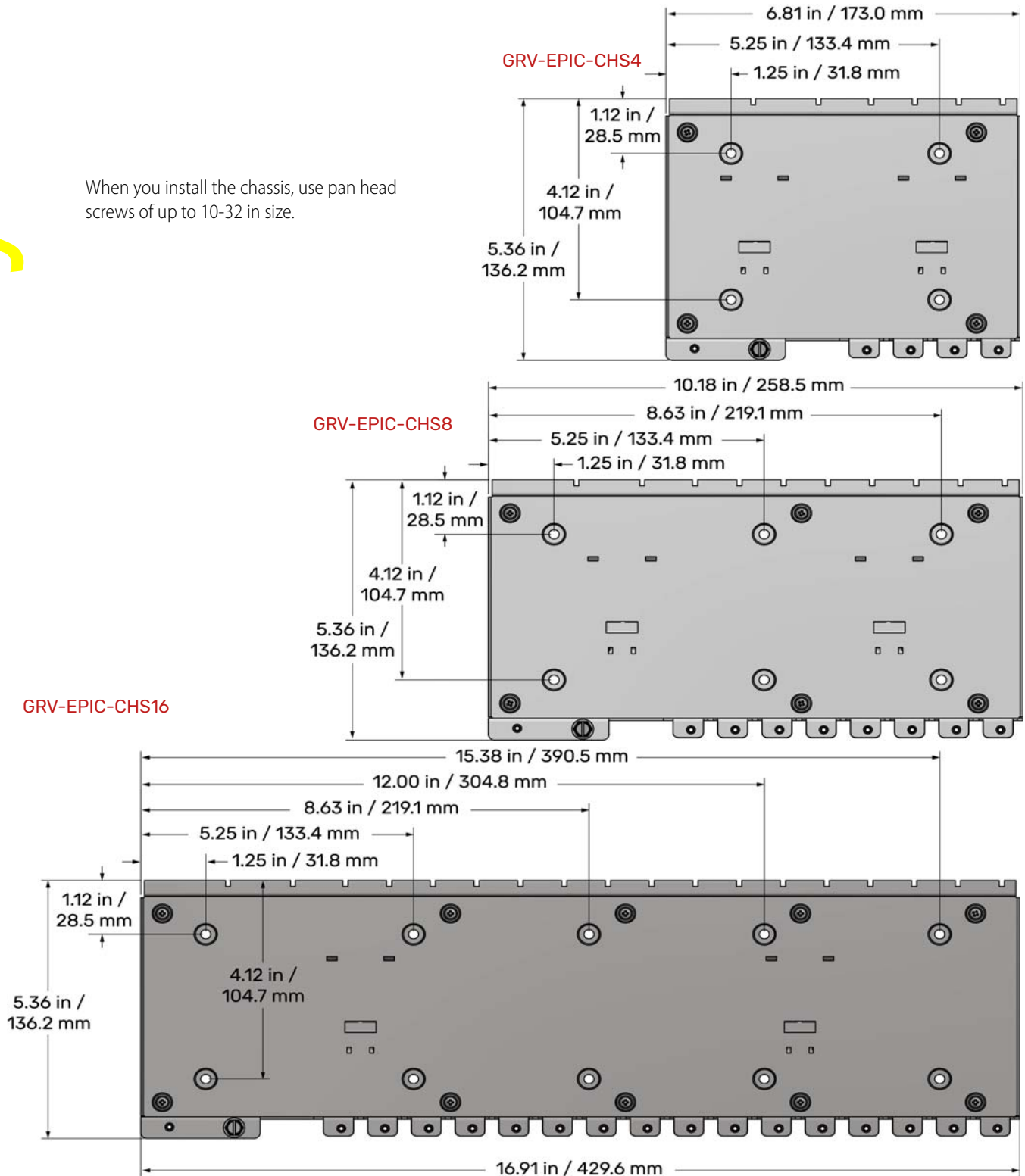


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Mounting Hole Dimensions

The following diagrams show the length measurements from the edges of the chassis to the center positions of the mounting holes.

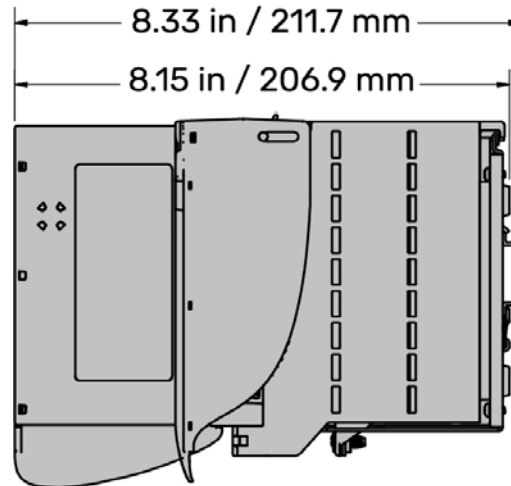
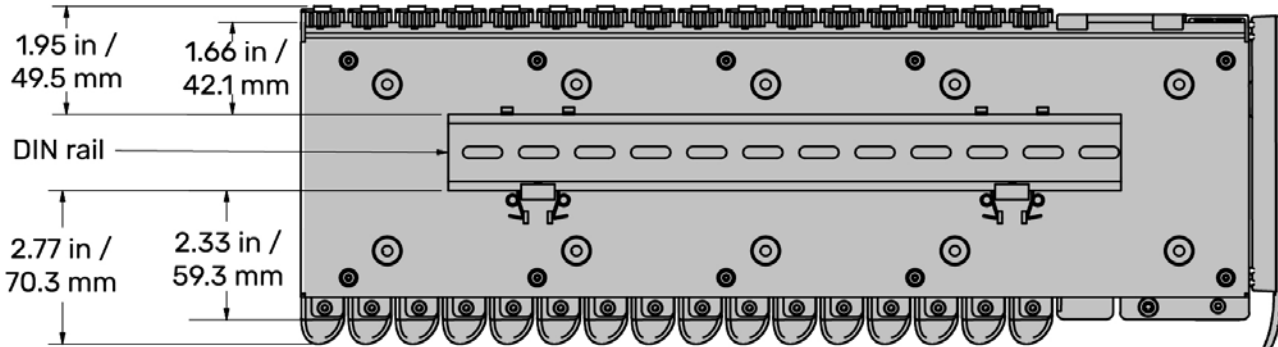
When you install the chassis, use pan head screws of up to 10-32 in size.



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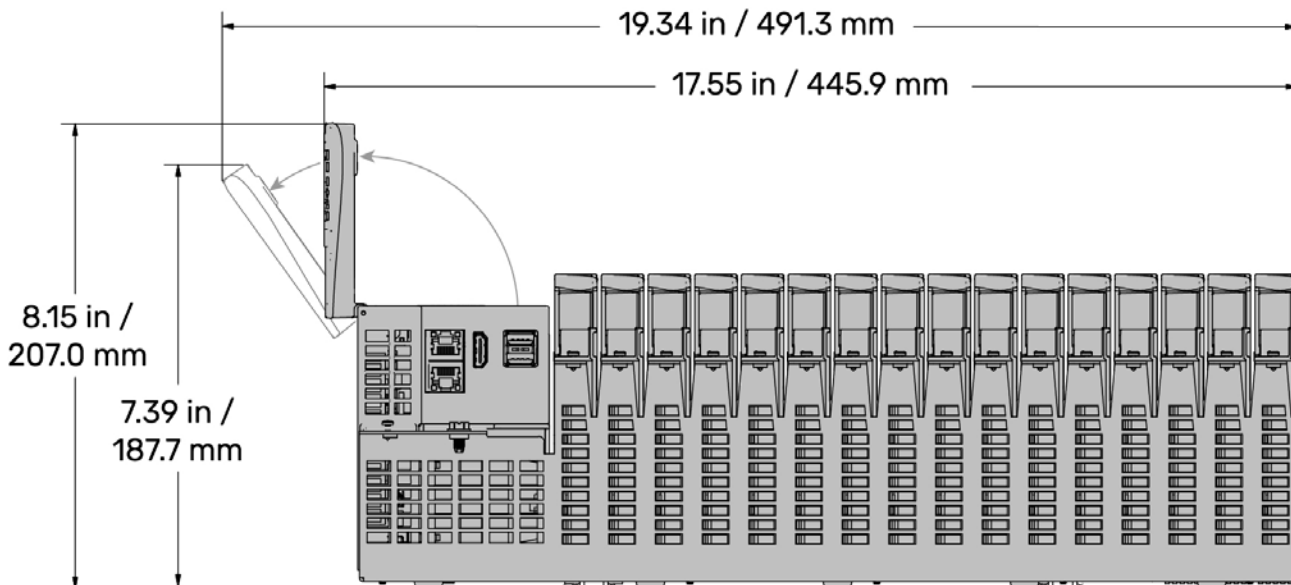
Overall Dimensions with Power Supply, Processor, and Modules Mounted

The following diagrams show the dimensions of a 16-module chassis with a power supply, processor, and 16 modules mounted on it. The DIN rail shown is not available from Opto 22.



The dimensions shown in the diagram on the right show the display open, perpendicular to the closed position.

The dimensions shown in the diagram below show the display open in two positions: upright and out to its fullest extension.



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ASSEMBLING AND MOUNTING CHASSIS ON A PANEL

Use the following steps to mount the chassis onto a panel.

Preferred Method: Using Chassis as Template

Use this method if you have the chassis on-hand to use as a template.

1. Review the diagram and the dimensional drawings in previous pages to determine required product and option clearances.
2. If the backplane is attached to the chassis, remove the backplane to gain access to the chassis mounting holes.
3. Use the chassis as a template to mark holes or other clearances required.
4. After the chassis is securely mounted, attach the backplane with the retention screws provided.

Alternate Method: Prefabrication of Panels

If you do not have the chassis on-hand, review the diagrams on the previous pages to determine mounting hole positions.

ASSEMBLING AND MOUNTING ON A DIN RAIL

The chassis is built with 35 mm DIN rail adapters for use on 35 mm DIN rail. No additional assembly is required.

To mount the chassis on to a DIN rail, do the following tasks:

1. Clip (or snap) the chassis onto the DIN rail.
2. Mount the power supply, the processor, and the modules onto the chassis.

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