

## groov EPIC® Processors

GRV-EPIC-PR1 Programmable automation controller

## groov EPIC Chassis

GRV-EPIC-CHS0 Processor and power supply only mounting chassis  
GRV-EPIC-CHS4 4-module analog/digital/serial mounting chassis  
GRV-EPIC-CHS8 8-module analog/digital/serial mounting chassis  
GRV-EPIC-CHS16 16-module analog/digital/serial mounting chassis

## groov EPIC Power Supplies

GRV-EPIC-PSAC Power supply, 110–240 VAC  
GRV-EPIC-PSDC Power converter, 24–48 VDC  
GRV-EPIC-PSPT Pass-through power adapter, 11.4–12.6 VDC, up to 9 A

## Software

Note: *groov Manage*, *groov View*, *PAC Control Runtime*, and *Node-RED* are included with the *GRV-EPIC-PR1*. *CODESYS® Runtime*, *Ignition Edge®*, and *Secure Shell* are pre-installed but require a license (to order, use part number below):

GRV-LIC-CRE *groov* EPIC activation key for CODESYS Runtime  
GRV-LIC-EDGE *groov* EPIC activation key for Ignition Edge  
GRV-LIC-SHELL *groov* EPIC activation key for Secure Shell access

## groov EPIC Accessories

GRV-TERM26-5 *groov* I/O module terminal, 5 pack  
GRV-TEX-26F6 26-wire cable for *groov* I/O modules. Straight-through; no common terminals. Flying leads.  
GRV-TEX-SCTOOL *groov* spring clamp terminal tool

## groov Analog Input Modules

GRV-IICTD-12 Analog input, temperature, ICTD, 12 channels  
GRV-IMA-24 Analog input, 24 channels, configurable input ranges of 4–20 mA, 0–20 mA,  $\pm 20$  mA  
GRV-IMAI-8 Analog input, 0–20 mA, isolated, field or chassis-powered loop, 8 channels  
GRV-ITM-12 Analog input, 12 channels, thermocouple or mV  
GRV-ITMI-8 Analog input, 8 channels, thermocouple or mV, channel-to-channel isolation  
GRV-IRTD-8 Analog input, temperature (RTD) or resistor, 8 channels  
GRV-ITR-12 Analog input, 12 channels, temperature (thermistor) or resistor  
GRV-IV-24 Analog voltage input, 24 channels, 8 configurable input ranges from  $\pm 1.25$  V to  $\pm 160$  VDC  
GRV-IVI-12 Analog voltage input, 12 channels, configurable input ranges from  $\pm 1.25$  to  $\pm 160$  VDC, channel-to-channel isolation  
GRV-IVIRMS-10 Analog RMS voltage input, 10 channels, 0–300 VAC/VDC, channel-to-channel isolation

## groov Analog Output Modules

GRV-OVMALC-8 Analog output, 8 channels, voltage or current, chassis-powered loop  
GRV-OVMAILP-8 Analog output, 8 channels, voltage or current, channel-to-channel isolation, field or chassis-powered loop

## groov Discrete Input Modules

GRV-IAC-24 AC input, 24 channels, 85–140 VAC  
GRV-IACS-24 AC input, 24 channels, 85–140 VAC, on/off state only  
GRV-IACI-12 AC input, 12 channels, 85–140 VAC, channel-to-channel isolation  
GRV-IACIS-12 AC input, 12 channels, 85–140 VAC, channel-to-channel isolation, on/off state only  
GRV-IACHV-24 AC input, 24 channels, 180–280 VAC  
GRV-IACHVS-24 AC input, 24 channels, 180–280 VAC, on/off state only  
GRV-IACHV-12 AC input, 12 channels, 180–280 VAC, channel-to-channel isolation  
GRV-IACHVS-12 AC input, 12 channels, 180–280 VAC, channel-to-channel isolation, on/off state only  
GRV-IDC-24 DC input, 24 channels, 15–30 V  
GRV-IDCS-24 DC input, 24 channels, 15–30 V, on/off state only  
GRV-IDCSW-12 DC input, 12 channels, switch status  
GRV-IDCI-12 DC input, 12 channels, 10–30 V, channel-to-channel isolation,  
GRV-IDCIS-12 DC input, 12 channels, 10–30 V, channel-to-channel isolation, on/off state only  
GRV-IDCIFQ-12 DC input, 12 channels, 2.5–30 V, channel-to-channel isolation, high speed, quadrature  
GRV-IACDCTL-24 AC/DC input, polarity insensitive, 24 channels, 2–16 V AC/DC  
GRV-IACDCTL-24 AC/DC input, polarity insensitive, 24 channels, 2–16 V AC/DC, on/off state only

## groov Discrete Output Modules

GRV-OAC-12 AC output, 12 channels, 12–250 VAC  
GRV-OACS-12 AC output, 12 channels, 12–250 VAC, on/off only  
GRV-OACI-12 AC output, 12 channels, 12–250 VAC, channel-to-channel isolation  
GRV-OACIS-12 AC output, 12 channels, 12–250 VAC, channel-to-channel isolation, on/off only  
GRV-ODCI-12 DC output, 12 channels, 5–60 VDC, channel-to-channel isolation  
GRV-ODCIS-12 DC output, 12 channels, 5–60 VDC, channel-to-channel isolation, on/off only  
GRV-ODCSRC-24 DC output, 24 channels, 5–60 VDC, sourcing  
GRV-OMRIS-8 AC/DC output, 8 channels, mechanical relay, 0–250 VAC/5–30 VDC, 5 A

## groov Serial Modules

GRV-CCANI-2 Serial communication, 2 channels, CAN, channel-to-channel isolation  
GRV-CSERI-4 Serial communication, 4 channels, RS-232 or RS-485, channel-to-channel isolation

## groov RIO

A family of intelligent, independent I/O units that can work as remote I/O units through PAC Control strategies, *Node-RED* flows, *CODESYS* applications, and custom control programs:  
GRV-R7-MM1001-10 Remote I/O; 8 multi-signal, multifunction channels; 2 form C electromechanical relay output channels

- Web-based commissioning, troubleshooting, and *groov* View HMI display
- LCD touch display
- Dual USB ports for serial communications, touchscreen monitors, or WiFi adapters
- HDMI port for external monitors
- Dual independent Gigabit Ethernet network interfaces
- Supports up to 16 *groov* I/O modules

- Available in three models:
- AC power supply
  - DC power converter
  - Pass-through power adapter

### groov EPIC Power Supply

### groov I/O Modules

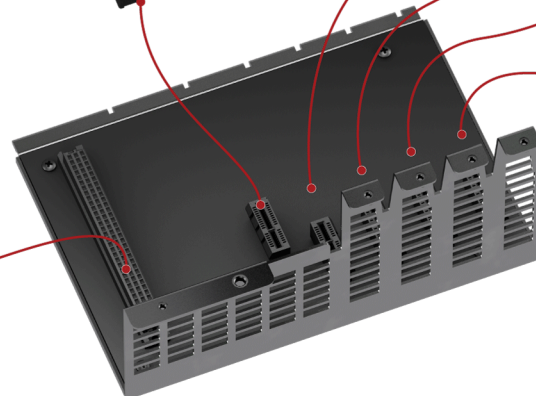
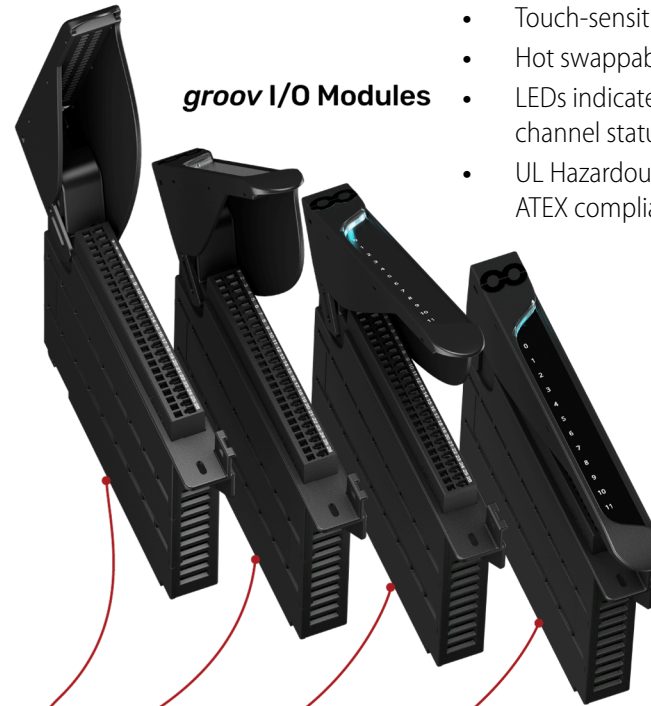
- Pivoting, two-position cover
- Touch-sensitive pad
- Hot swappable
- LEDs indicate module health and channel status
- UL Hazardous Locations approved and ATEX compliant

### groov EPIC PR1 Processor



### groov EPIC Software

- PAC Project Basic
- *groov* Manage
- *groov* View
- Node-RED
- Ignition Edge
- CODESYS



### groov EPIC Chassis

- Available in three models:
- 0-module
  - 4-module (shown)
  - 8-module
  - 16-module