

ARTISAN®
TECHNOLOGY GROUP

Your **definitive** source for quality pre-owned equipment.

Artisan Technology Group
(217) 352-9330 | sales@artisantg.com | artisantg.com

Full-service, independent repair center
with experienced engineers and technicians on staff.

We buy your excess, underutilized, and idle equipment
along with credit for buybacks and trade-ins.

Custom engineering
so your equipment works exactly as you specify.

- Critical and expedited services
- In stock / Ready-to-ship
- Leasing / Rentals / Demos
- ITAR-certified secure asset solutions

Expert team | Trust guarantee | 100% satisfaction

All trademarks, brand names, and brands appearing herein are the property of their respective owners.

Visit our website - *Click HERE*

28V, 120A, 32-Channel Light-Weight SSPC Power Distribution Unit

Product Brief

Model: RP-2032151XD0



800,000+ SSPC NODES INSTALLED SINCE 1988

DDC's 32-channel solid state power controller (SSPC) power distribution unit controls, protects, and continuously monitors up to 120A to 32 independent electrical system loads, in a ruggedized military-grade form factor.

Key Features

Performance

- Measurement Accuracy better than 5%
- Total Module Current Capability of 120 Amps
- Nominal 28V Operation, MIL-STD-1275C, MIL-STD-704, Def Stan 61-5 Compliant
- Controlled Rise/Fall Times
- Monitoring
  - Load Currents
  - Input Voltage
  - Channel Output Voltages
  - On-board and External Temperatures
- Low Power 'SHUTDOWN' Mode Input

Functionality

- 32 Independent Load Channels
- Instant Trip and I²t Protection / Thermal Memory
- Continuous Built-In Test (BIT)
- Trip Override (Battle) Mode
- Discrete Control Options
  - Discrete Control Interface (DCI)
  - Trip Status Output (TSO)
  - Reset-All-Trip Input (RAT)
  - Auxiliary Channel Reset
  - Discrete Channel On/Off Control
- SAE J1939 Compatible CAN Interface
  - SAE J1939 Compatible CANbus Interface (250K, 500K, 1MBaud)
  - Serial RS-485 and Discrete Control Options

Programmability

- 5A, 10A, 20A Rated Channels with 10:1 Programmability
- Channel Paralleling for High Current Loads

Environmental

- MIL-STD-810 Compliance for Shock, Vibration etc.
- MIL-STD-461 Compliance for EMI/EMC
- IP-65 Rated Ingress Protection
- Ruggedized Conduction Cooled Form Factor

Benefits

- High Reliability
  - 25x Improvement in MTBF, Compared with Mechanical Switches, Breakers, and Relays
  - Very Rapid Short Circuit Deactivation Protects Wires, Loads, and SSPCs
  - Improved Mission Safety and Longevity
- Greater System Protection
  - I²T Overload Protection Avoids Nuisance Trips
  - Controlled Rise/Fall Time for EMI Reduction, Reduced Inrush Currents, and Reduced Inductive Transients during Turn-Off
  - Provides Prognostics/Diagnostics Data
  - Enables Preventive and Automated Maintenance
  - Power Profiling and Analysis
- More Efficiency
  - 7x Improvment in Volume Density, 5x Improvement in Weight Density, Compared with Mechanical Switches, Breakers, and Relays
  - Low Power Dissipation
  - Crew Off-loading
  - Energy Savings Through Load Shedding and Load Prioritization
  - Programmability Allows for Increase in Up-time and Mission Readiness
- Cost Savings:
  - Weight and Integration Savings
  - Programmability Allows for Minimum Inventory
  - Minimized Maintenance and Support
  - Field Upgradability Provides Protection from Obsolescence

Applications

- Military Land Vehicles
- Commercial Trucks
- Industrial Controls
- Military/Commercial Ships
- Weapon Systems
- Unmanned Vehicles

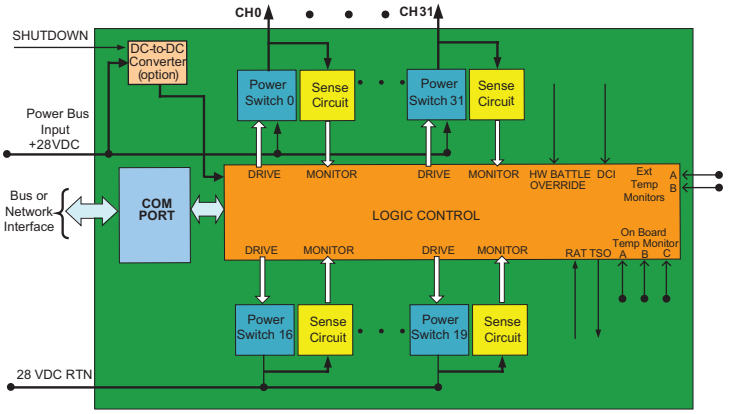
For more information: www.ddc-web.com/RP-203215

© 2013 Data Device Corporation. All trademarks are the property of their respective owners.

Printed on recycled paper.

Block Diagram

RP-2032151XD0

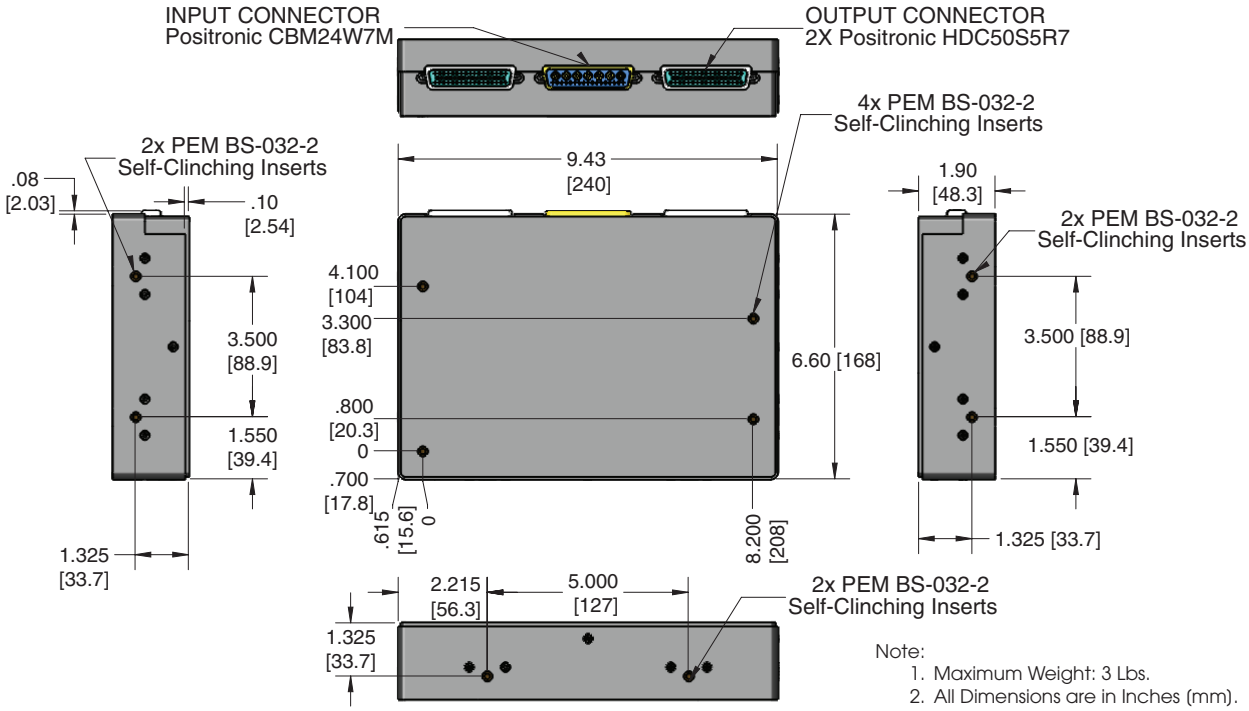


Ordering Information

RP-2032151XD0-2C0

- **Processing Requirements:**
  - 0 = Standard DDC Processing
- **Cooling Methods/Ruggedness:**
  - C= Conduction Cooled
- **Operating Temperature Range (at Thermal Interface):**
  - 2 = Industrial, -40°C to +85°C
- **Configuration Option:**
  - 0 = 4, 20A; 4, 10A; 20, 5A; 4, 1A
- **Connector:**
  - D = "D" Connectors
- **Communication Interface**
  - 1 = CAN Bus
  - 5 = Serial RS485/422
- **Ingress Protection Rating:**
  - 0 = None
  - 5 = IP65
- **Card Stack Height:**
  - 1 = 1 Card (32 Channels)
- **Number of RPC Channels per Board:**
  - 32 = 32 Channels
- **Base Module Type:**
  - RP-20 = RPC Module

Mechanical Drawing



Note:
1. Maximum Weight: 3 Lbs.
2. All Dimensions are in Inches (mm).

DATA DEVICE CORPORATION
REGISTERED TO:
ISO 9001:2008, AS9100C:2009-01
EN9100:2009, JIS Q9100:2009
FILE NO. 10001296 ASH09



The information in this Product Brief is believed to be accurate; however, no responsibility is assumed by Data Device Corporation for its use, and no license or rights are granted by implication or otherwise in connection therewith. Specifications are subject to change without notice.

For ordering assistance and technical support,
Call: 1-800-DDC-5757 for North America
(631) 567-5700 for International
E-Mail: service@ddc-web.com
Visit: www.ddc-web.com

Headquarters, N.Y., U.S.A - Tel: (631) 567-5600, Fax: (631) 567-7358
United Kingdom - Tel: +44-(0)1635-811140, Fax: +44-(0)1635-32264
France - Tel: +33-(0)1-41-16-3424, Fax: +33-(0)1-41-16-3425
Germany - Tel: +49-(0)89-1500-12-11, Fax:+49(0)89-1500 12-22
Japan - Tel: +81-(0)3-3814-7688, Fax: +81-(0)3-3814-7689
Asia - Tel: +65-6489-4801 Data Device Corporation

Artisan Technology Group is an independent supplier of quality pre-owned equipment

Gold-standard solutions

Extend the life of your critical industrial, commercial, and military systems with our superior service and support.

We buy equipment

Planning to upgrade your current equipment? Have surplus equipment taking up shelf space? We'll give it a new home.

Learn more!

Visit us at **artisantg.com** for more info on price quotes, drivers, technical specifications, manuals, and documentation.

Artisan Scientific Corporation dba Artisan Technology Group is not an affiliate, representative, or authorized distributor for any manufacturer listed herein.

We're here to make your life easier. How can we help you today?

(217) 352-9330 | sales@artisantg.com | artisantg.com

ARTISAN® TECHNOLOGY GROUP