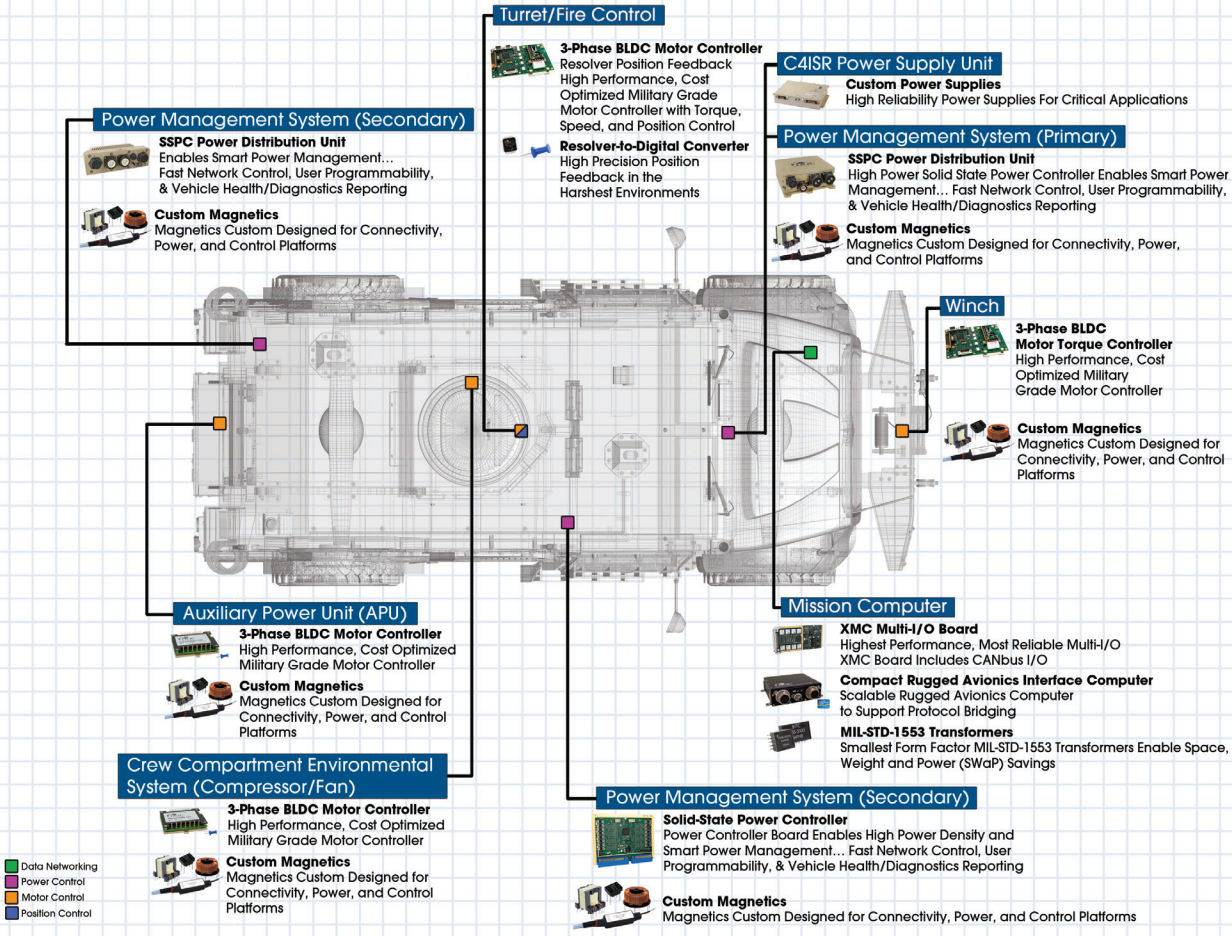
Ground Vehicle Systems

DDC®
Connectivity Power Control



DDC's field proven technology is integrated into many of the world's most advanced Ground Vehicle systems:

- AMPV
- AMX-56 LeClerc
- Arjun
- BMP-2
- Bradley
- Challenger II
- CM-32 Yunpao
- Cougar
- EFV
- FRES
- GCV
- HMMWV
- IRV
- JLTV
- K1/K1A2
- K-2 Black Panther
- K21
- LAV III
- LAV/LAV II
- Leopard 2
- M104 Wolverine HAB
- M-113
- M1200 Armored Knight
- M1A1 Abrams
- M1A2 Abrams
- M60
- M88 Hercules
- M-ATV
- Merkava IV
- MGS
- MRAP
- MULE
- Ocelot LPPV
- Paladin
- Piranha
- PUMA
- Ranger
- RST-V Shadow
- Stormer
- Stryker
- T90
- Type 10 TK-x
- Type 90
- Type 99 155mm HSP
- VAB HOT
- VBCI
- VBL
- VBM Freccia
- XK1
- XK2

For more information: www.ddc-web.com/GVS

Power

32 Channel SSPC Board

Model: RP-26611000N0

Features:

- Nominal 28VDC Operation, MIL-STD-1275C and MIL-STD-704F Compliant
- Ruggedized Conduction Cooled
- Total Continuous Current of 280A
- 32 Independent Load Channels
- 10A Channels with 10:1 Current Programmability
- Instant Trip and i^2t Protection/Thermal Memory

16 Ch SSPC Power Distribution Unit (PDU)

Model: RP-20161XXXC1

Features:

- Nominal 28VDC Operation, MIL-STD-1275D, MIL-STD-461, MIL-STD-810, and Def Stan 61-5 Compliant
- Ruggedized, IP-67 Rated Enclosure with Military Connectors
- Total Continuous Current of 238A
- 16 Independent Load Channels
- 8A, 10A, and 25A Channels with 10:1 Current Programmability

4 Ch Small Form Factor SSPC PDU

Model: RP-20S16

Features:

- Nominal 28VDC Operation, MIL-STD-1275D, MIL-STD-461, MIL-STD-704F and MIL-STD-810 Compliant
- Ruggedized, IP-67 Rated Enclosure with Military Connectors
- Total Continuous Current of 300A
- 4 Independent Load Channels
- 75A Channels with 3:1 Programmability

Custom Power Supplies

Models: custom

Features:

- Line Replacement Units (LRUs), Integrated Assemblies, and Embedded Power Supplies
- Power Ranges from 10 Watts through to Several Kilowatts
- Inputs of 115VAC, Fixed or Variable Frequency, 28VDC or Dual 115VAC/28VDC
- Outputs Designed to Specific Customer Requirements

Data Networking

Compact Avionics Interface Computer

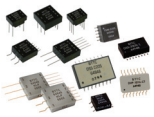
Model: BU-67125W

Features:

- Embedded Intel® Atom E3845 Quad Core Processor
- 16GB DDR3 EEC Memory
- 128GB SSD Fixed and/or Removable Memory
- Dual Gigabit Ethernet Interfaces for Network Connectivity
- Expandable 2x mPCIe Sites and Custom Expansion Module to Support Additional I/O Interfaces

Transformers and Magnetics

MIL-STD-1553 and Power



Models: custom

Features:

MIL-STD-1553 Transformers

- Built & Tested to MIL-PRF-21038 & MIL-STD-202 (M-Level & T-Level Screening Available)
- For Use with MIL-STD-1553 A & B, McAir, A-3818, A-5690, A-5232, & A-4905

Power Transformers

- MIL-PRF-27, QPL-DSCC Qualified Transformers (Designation MIL-PRF-27/43-01 A/B through MIL-PRF-27/43-44 A/B)

Motor Drive and Control

Position, Torque, and Speed Control

Model: PW-87XXXNXX0X

Features:

- Complete COTS Motor Control Solution
- 600VDC Rating Available
- Up to 75A Output Current
- CANbus, RS-232, RS-422, and RS-485 Ethernet
- Hall or Resolver Feedback Support
- Sine Drive Capable
- 3 Analog Inputs, 4 Digital Inputs
- 2 Digital Outputs
- GUI Based Set-up Utility

DSP Speed/Torque Controllers

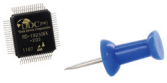
Model: PW-8256XNX

Features:

- Self-contained 3-Phase Motor Controller
- Multiple Voltage/Current Ratings: 100V/30A, 200V/10A, 400V/5A
- Up to 95% Duty Cycle Operation
- 7% Linearity, 3% Current Regulating Accuracy
- Programmable via Easy-to-Use GUI or Direct Control Interfaces
- Torque and Speed Control Modes
- 10kHz - 40kHz PWM Frequency

Motor Positioning & Feedback

Resolver-to-Digital & LVDT Converters



Model: RD-19230

Features:

- Single Chip Synchro, Resolver, Inductosyn, LVDT, RVDT, MR, and Hall Sensor to Digital Converter
- Programmable Resolution (10, 12, 14, 16 bit), Bandwidth, & Tracking
- ±Accuracy up to 1 Arc Minute
- Analog Control System Eliminates Need for DO-178 Re-certification
- Extended Temperature Range: -55°C to +125°C

Custom Hybrid, MCM, and PCB Solutions

DDC designs boards, hybrids and multi-chip modules (MCM) to meet ruggedness and reliability levels for performance in the most demanding environments. Our expertise lies in our engineering and manufacturing abilities to reduce size, weight and power while providing the highest level of integration into small single packaged solutions.

Quality

- Underwriters Laboratories (UL) Certified:
  - ISO 9001: 2008 Certified
  - AS9100, Rev. C Compliant
  - EN9100 Compliant
  - JIS Q9100 Compliant
- Defense Supply Center Columbus (DSCC) Certified:
  - MIL-PRF-38534 Class D, G, H, & K

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

For ordering assistance and technical support,
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