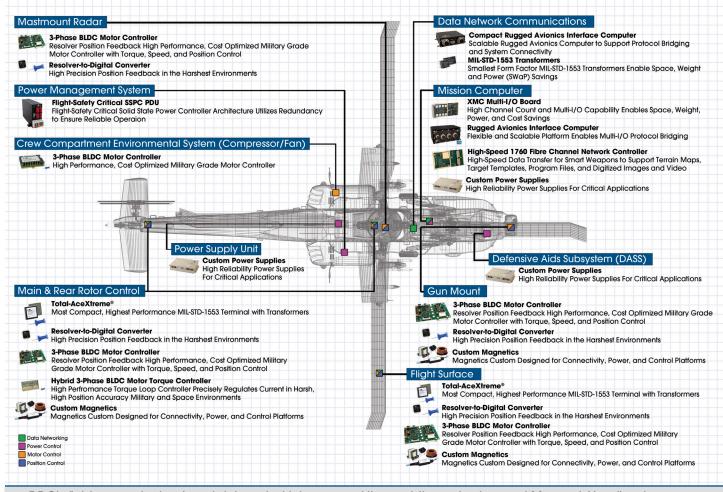
# Military Vertical Lift Systems







# DDC's field proven technology is integrated into many of the world's most advanced Manned Aircaft systems:

- A129 Mangusta
- AH-1S Cobra
- AH-64 Apache
- AH-64D Longbow
- ALH (HAL Dhruv)
- ARH-70 Arapaho
- AW101 Merlin
- AW159 Future Lynx
- CH-47 Chinook
- CH-53 Sea Stallion
- CH-53E Super Stallion
- CH-53K King Stallion
- CH-60 Sea Hawk
- CV-22 Osprey
- EH-101 Merlin
- Gazelle
- H-1 Super Cobra
- H-60
- HH-60 Pave Hawk
- KHP
- LAMPS
- Lynx helicopter
  - MCH-101
  - MH-60 Black Hawk
- Mi-17 • Mi-35 • NH-90
- NHP OH-1 Ninia
- OH-58D Kiowa Warrior • RAH-66 Comanche
- Rooivalk
- S-70
- S-97 Raider
- SH-2GA Seasprite
- SH-3 Sea King SH-60 Seahawk SH-60J/K Seahawk
- UH-1 Iroquois UH-60 Blackhawk
- US101
- V-22 Osprey
- VH-3D
- VH-60 • VH-71

- T-129 ATAK Tiger/Tigre

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

#### **Power**

#### Flight Safety-Critical SSPC PDU



Model: RP-2F241XXXX

#### Features:

- · Nominal 28VDC Operation, MIL-STD-461, MIL-STD-810, DO-160G Compliant
- MIL-STD-1275C, MIL-STD-704 Compliant
- Total Continuous Current of 260A
- 24 Independent Load Channels
- Channels with 10:1 Current Programmability
- Redundant Channel Failsafe Mechanism
- **Dual Redundant Host Controllers**

**Motor Drive and Control** 

#### **Custom Power Supplies**



Model: 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

# **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)

#### 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 50kHz 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
- Programmable Resolution (10, 12, 14, 16 bit), Bandwidth, & Trackina
- ±Accuracy up to 1 Arc Minute
- Analog Control System Eliminates Need for DO-178 Re-certification
- Extended Temperature Range: -55°C to +125°C

# **Data Networking**

# **Compact Avionics Interface Computer**



Model: BU-67125

# 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 mPCle Sites and Custom Expansion Module to Support Additional I/O Interfaces

# XMC MIL-STD-1553 Board



Model: BU-67112X

#### Features:

- Low 1553 Transceiver Power
- High MTBF for Rugged Environments
- Front or Rear I/O
- 8 Dual-Redundant MIL-STD-1553 Channels
- BC/MT or Multi-RT/MT per Channel
- Supports MIL-STD-1553A/B, MIL-STD-1760, and MacAir
- 16 Avionics Digital I/O
- IRIG-106 Chapter 10 Monitor

### **Fibre Channel Network Controller**



Model: FC-75511

#### Features:

- High-Speed 1760 Fibre Channel XMC Board
- FC-AE-1553 NC and NT Operation
- 2 Channels, which can Operate as 2 NCs, 2 NTs, or 1 NC and 1 NT
- x4 PCI Express Interface
- Choice of  $150\Omega$  Differental or  $75\Omega$  Coax Physical Layers
- Conduction or Air Cooled XMC for Extended Temperature Operation
- Windows® and VxWorks® 5.5 Software Drivers

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





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