



Company Confidential and Proprietary Information



Data Device Corporation & Power Device Corporation

Your Solution Providers for... Connectivity, Power and Control!

- Established 1964
- Manufacturing Operations:
 - New York, San Diego, UK & Mexico
 - >200,000 sq-ft
 - ISO9001:2015. AS9100:2016
 - MIL PRF-38534, MIL-PRF-38535
- Engineering Locations:
 - New York, San Diego & UK
- ~600 Employees Worldwide
- Sales & Support:
 - DDC: USA, UK, France, Germany, India, Japan
 - Local Representatives in 36 Countries



Data Device Corporation
Headquarters – Bohemia, NY



Space Microelectronics
San Diego, CA



Pascall
Ryde, Isle of Wight , UK



Beta Transformer
Bohemia, NY



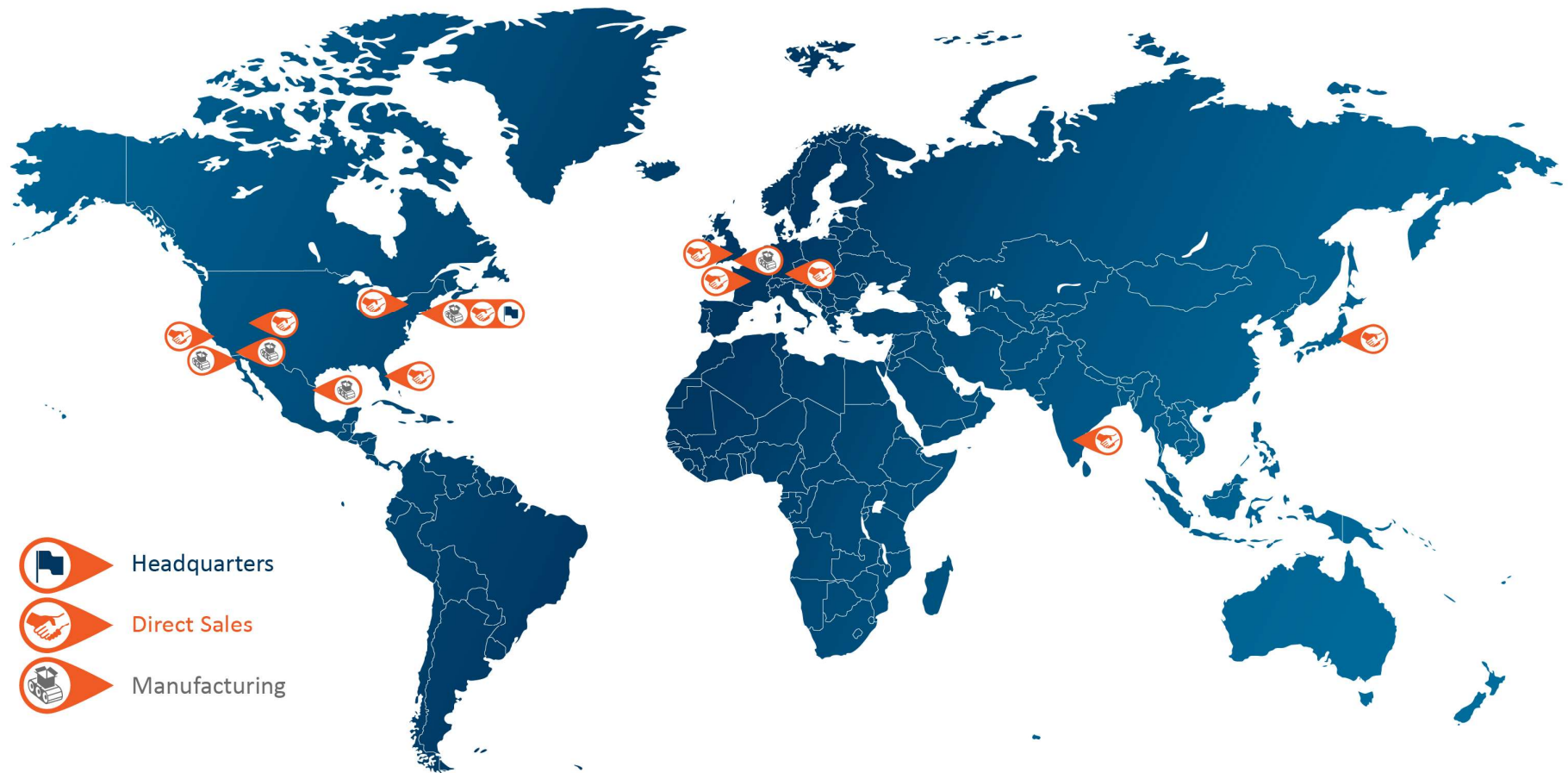
Beta Transformer
Ensenada, Mexico



North Hills
Matamoros, Mexico



Global Supply... Local Support



Data Device Corporation and Power Device Corporation



Databus Components & Boards Business Units (Long Island, NY)

Broad portfolio of military and space grade networking solutions.

MIL-STD-1553, ARINC 429, Fiber Channel, CANbus. Products: components, boards, hybrids, computers.



Magnetics Business Unit (Long Island and two Mexico plants)

Complementary mainly to Databus, and also Power Control products. Products: Transformers, inverters, couplers, pulse & power magnetics, 1Gb Ethernet magnetics, 1394b Firewire magnetics, cable assemblies.



Power Control & Motion Control Business Units (Long Island, NY)

Solid State Power Controllers, motor controllers and high-precision analog to digital converter solutions. Products: components, boards, hybrids, SSPC LRUs.



Space Business Unit (San Diego, CA)

Radiation hardened components, memory products and triple-redundant processor-based board solutions. Products: components, boards, hybrids, computers.



Power Supplies Business Unit (Isle of Wight, UK)

Compact power supplies for harsh military, civil aerospace and industrial applications. Products: boards, LRUs.



Product Overview

DATA DEVICE CORP

Data Bus Solutions & Systems



Data Bus Components Business Unit Bohemia, NY

Core competency with an extremely broad portfolio of military and space grade deterministic networking solutions:

- MIL-STD-1553
- Space Grade Class K 1553
- ARINC 429
- Time Sensitive Networking (TSN)



Data Bus Systems Business Unit Bohemia, NY

Rugged, configurable and scalable low power computing platforms & board supporting a wide variety of networking protocols, including: MIL-STD-1553, Ethernet, ARINC 429, CANbus, Fibre Channel, SpaceWire. Network testers, cables & couplers.



Magnetics Business Unit Bohemia, NY, Matamoros, MX Ensenada, MX

Power & switchmode transformers, and inductors designed and built to meet the rugged requirements of MIL-PRF-27 and MIL-STD-981, for use in high reliability military, aerospace and space applications.



Power Control Business Unit Bohemia, NY

World leader in Solid State Power Control Solutions simplifies platform power control and provides health and diagnostics data that allows the operator to focus on other mission critical activities

- Ground Vehicles
- UAVs
- Mission Aircraft



Power Supplies Business Unit Ryde, IOW, UK

30 years of experience in the defense, aerospace and industrial sectors, PDC is a trusted source for complete solutions in the design, development and manufacture of electronic power conversion products – from single converters to complex multi-function conversion systems.



Motion Control Business Unit Bohemia, NY

Leader in high reliability motor control and synchro/resolver motion feedback solutions

- Synchro/Resolver to digital converters
- Digital to Synchro/Resolver
- Sine Reference Oscillators
- Synchro Boosters
- Resistor Networks



Space Business Unit Poway, CA

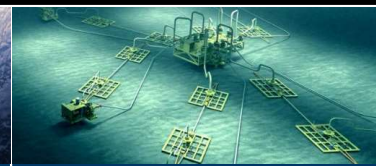
PDC is a leading supplier of space qualified SBCs and radiation hardened components

- Single Board Computers
- Memory Devices
- Interface Logic
- Switches / Muxes
- A/D Converters
- D/A Converters
- Nuclear Event Detectors

Markets/Solutions

**DDC's & PDC's
Field Proven Technology Can Be
Found On Almost Every
Military & Aerospace Platform**

Markets



Defense

Civil Aviation

Space

Industrial

Solutions

Connectivity

- Data Bus Components
- Data Bus Boards
- Fibre Channel & High Speed
- Signal Transformers & Couplers

Market Leader in
MIL-STD-1553
Components & Boards

ARINC 429 Boards &
Components,
ARINC 629 Plastic Optical
Converter LRU

Class H/B & K/S
MIL-STD-1553
Hybrid Microcircuits, Radiation
Tolerant Transformers,
Couplers, Memories, Data
Converters and Single Board
Computers

High Temperature
MIL-STD-1553 Components

Power Control

- Solid State Power Controllers
- Motor Control Systems
- Power Supplies

Largest Installed Base of
SSPCs in Industry, Market
Leader in Power Supplies

Flight Certified SSPCs,
Leader in IFE&C Power Supplies

NASA-qualified
Radiation Tolerant
Magnetic Solutions

High Temperature
Magnetics and Power Supplies
for Sub-Sea and Harsh
Environments

Motion Control

- Motor Controllers & Drives
- Motion Feedback – Synchro/Resolver

High Reliability
Motor Controllers,
Market Leader in
Synchro/Resolver
Conversion

High Reliability
Motor Controllers, Incumbent
RDC
Design-ins

Radiation Tolerant
Motor Controllers,
RDCs & Reference Oscillators

Transportation, Factory
Automation, High Temperature
Position and Motor Control
Solutions

Heritage... Nearly 60 Years of Experience

Defense Aerospace



A-10 Thunderbolt
 AH-64 Apache
 B-2 Spirit
 C-17 Globemaster III
 C-130 Hercules
 E-4B
 E-6B
 F-16 Falcon
 F/A-18 Hornet
 F-22 Raptor
 F-35 Joint Strike Fighter
 GlobalEye AEW&C
 KC-10 Extender
 MH-60
 RQ-4 Global Hawk
 UH-60 Black Hawk
 V-22 Osprey



Weapons Systems



AIM-9x Sidewinder
 AIM-120 AMRAAM
 AN/AAQ-24
 IRIS-T SL
 Javelin
 JDAM
 M51 SLBM
 Patriot
 Phalanx CIWS
 Red Shark Torpedo
 Sigma 95N
 SN/ASQ ATFLIR
 THAAD



Naval



AN/BLQ-11 LMRS
 AN/GSC-92 Antenna
 CVN Aircraft Carriers
 DDX Destroyers
 Seaspray Radar
 Virginia Class Submarine



Ground Vehicles



AMX-56 Leclerc Tank
 Bradley Fighting Vehicle
 Foxhound LPPV
 JLTV
 K21 Fighting Vehicle
 M1A2 Abrams Tank
 M270 MLRS
 M992 FAASV
 Paladin Mobile Howitzer
 Puma Fighting Vehicle
 Stryker
 TALON Military Robot



Space



Ariane 5 Rocket
 BioSentinel
 Chandrayaan-1
 RSGS
 ESA Euclid Satellite
 ExoMars
 Gaia
 GOSAT-2
 Jason-3
 JPSS
 Mars Curiosity
 Orion
 SBIRS-GEO 1 Satellite
 SLS
 Spacebus 4000
 SpaceX Dragon
 WFIRST



Civil Aerospace



Airbus A350, A380
 Boeing 777X, 787
 Bombardier CRJ
 Cessna 680
 COMAC ARJ21, C919
 Dassault Falcon 7x
 Embraer EMB 145, ERJ
 Eurocopter
 Gulfstream GV
 Hawker Beechcraft
 Sikorsky



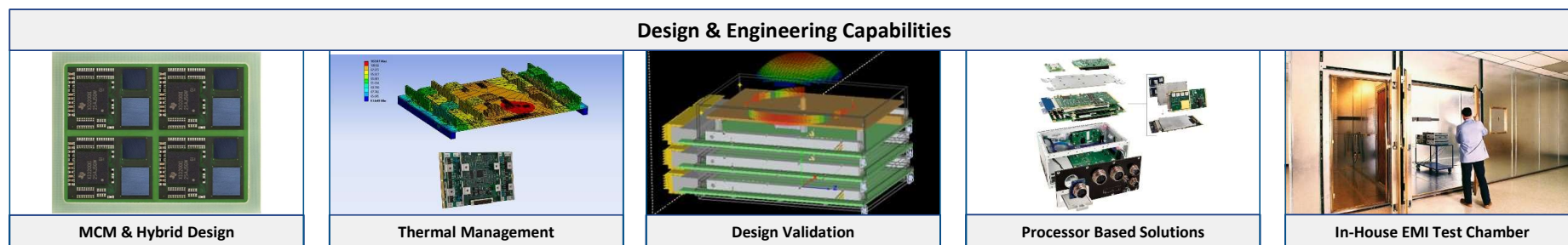
Design & Engineering Capabilities

■ Product Capabilities

- World's smallest MIL-STD-1553 interface – Nano-ACE BC/RT/MT
- Synchro-to-Digital Converter accurate to 1 Arc-minute – RD-19231
- Power, Data Bus, Motion Control, Semiconductor, MCM & Hybrid Design, Assembly & Test
- MCMs with SMT, Flip Chip & Wire Bonds in combination
- Surface-Mount & Through-Hole PCB Design & Assembly
- Magnetics for Signal Processing, Data Bus, Power
- Processor Based Solutions

■ Engineering / Mechanical Capabilities

- Analog, Digital, FPGA & ASIC Design
- Printed Circuit Board Design, Assembly Test & Evaluation
- In-House EMI Test Chamber
- Mechanical & Process Engineering
- Design Validation, Verification & Qualification
- Ruggedization & Thermal Management
- DO-178 Software & DO-254 Hardware
- Radiation Mitigation Through Shielding, Design, & Process
- Design, Assembly & Test of Magnetics & Transformers



Production Capabilities

- Fabless ASIC Design Boutique
 - Tier 1 Supply Chain for Foundry, Assembly & Final Test
- Hermetic & Non-Hermetic Hybrids
- MCMs featuring SMT, Flip Chip & Wire Bonds in Combination
- 3D MCMs with Memory Die Stacked up to 8 high
- Most Advanced, Fully Automated Surface-Mount & Thru Hole CCA line
- Transformers & Magnetics
- Radiation Mitigation through Shielding, Design, & Process
- Processor Based Solutions
- Fully Integrated Black Boxes

Printed Circuit Card Solutions



US Based Manufacturing



3D Optical Inspection



Highly Accelerated Stress Screening

Semiconductor, MCM & Hybrid Solutions



Automatic Die Bonding



Real-Time X-ray Inspection



Computer Aided Manufacturing

Signal & Power Transformer Solutions



Quad Pick & Place



Magnetics & Transformers Design



Assembly Test & Evaluation

■ Certifications & Qualifications

- ISO 9001:2015 Registered
- AS9100, Rev. D Certified
- EN9100 Compliant
- JIS Q9100 Compliant
- MIL-PRF-38534 Class D, G, H & K
- MIL-PRF-38535 Class B, Q, S & V

■ Product Qualifications

- DO-254
- DO-178
- DO-160

■ Audited & Approved Supplier for:



■ Best In Class On-time Delivery & Quality Recognition

- Raytheon:
 - 3 Star Supplier Excellence: 6 Time
 - Network Centric Systems 3 Star Supplier Excellence Award
 - IDS Supplier Excellence Award
 - Supplier Excellence Award
- Lockheed Martin:
 - Platinum Level Preferred Supplier Award
 - STAR Supplier Award
 - Preferred Supplier Gold Supplier Award
- General Atomics:
 - Supplier of the Year Award: 5 Time
- L-3 Communications Systems-West:
 - Platinum Award for Exceptional Supplier Quality & Delivery Performance
- Honeywell Sensor and Guidance Supplier Excellence Award
 - CASS CSP Support Symposium Award for Outstanding Supplier Performance



