

Design and Engineering Services

Hardware and Software

Contract Manufacturing

Concept

Design

Engineering

Simulation

Production

Test

Representing Technology Leaders in Sensors, Optical Networks, Wireless, Signal Integrity, Low Energy and RF/Microwave

2014 Product Lines (November 4, 2014)

4DSP (www.4dsp.com) – **NEW!**

Low Power, Light Weight, Small Size LPGA Based Signal and Image Processing Systems – Reconfigurable DSPs

- A/D, D/A, FPGA Processing, Clock Distribution, Video
- 250MSPS/16Bit to 5GSPS/10Bit A/D and D/A Devices
- Form Factors: 3U VPX, 3U CPCI, FMC, XMC, PCIe (Desktop or Server)
- COTS Board Level Electronics
- NEW!** 4DSP Breaks New Barrier in FMC Form Factor with 2.5GHz Instantaneous Analog Bandwidth Solution
- NEW!** High Performance A/D – D/A in Stackable Format with the FMC144
- AS9100C Certified Company

American Technical Ceramics (ATC) (www.atceramics.com)

UHF, RF, Microwave and Millimeter Wave Ceramic Single and Multi-Layer Capacitors

- Hi-Q and Ultra Low ESR Multilayer Chip Caps (0402, 0603, 0805 sizes) + Single Layer Capacitors to >40 GHz
- A, B and E Case Size Multilayer Capacitors and Capacitor Assemblies for High Voltage Applications
- Passive Equalizer and Filter Structures for Signal Integrity Applications – Inductor Q>80, 4 micron Gap & Lines
- Wire Wound Surface Mount Chip Inductors – 1nH to 1200nH, High Q & Low DC Resistance 800 – 3400 MHz
- Custom Thin Film Hybrid Circuits – Sputtered and Electroplated Coatings
- Build to Print** - Alumina, Beryllia, Aluminum Nitride, Quartz, Silica - Resistors, Air Bridges, Vias, Crossovers, etc.
- High Power RF Resistive Products** - Aluminum Nitride substrates – 25 – 500Ω, 1dB to 30 dB Attenuation

Broadband DC Blocks

- 16 kHz to 40 GHz Resonance free and Lowest Insertion Loss
- Size 0402, 0301, 0201
- Monolithic Construction

Exelis (www.exelisinc.com)

Direct Digital Synthesizers (DDS) - DC to 26GHz – Spurious down to -85dBc; 150nsec Switching Time!

- Military Applications: Radar, IFF, EW, SIGINT and Wideband Data Links - Covering VHF to K Band
- 0 Settling Time
- FPGA Based
- Custom Assemblies and Arbitrary Wave Form Generators Available
- Cryptographic Modules / Information Assurance – Secure Network Processor SoC – NSA Certified
- RF & Mixed Signal Custom RFIC's / ASIC's and SoC's – Synthesizers / ADC's / DAC's / Transceivers

GigaLight (www.gigalight.com.cn)

Optical Network Devices Innovator – Transceivers, Assemblies, Passive Devices and Active Components

- 120G/100G/40G/10G Transceivers – Fiberchannel, SFP, 3G Video/SFSW/CSP, PON
- Cables, Patch Cords
- Optical Switches, Isolators, Photonics Detectors, Couplers/Splitters, Mux/Demux Modules, VOA, TOSA, TIA

Linear Dimensions Semiconductor (www.lineardimensions.com)

Analog & Digital Signal Processing ASIC's and IC's – Hardware and Software for Physiological Diagnostics & Acquisition

- Heart Monitoring (ECG/EKG) Systems – Lowest Power – Diagnostic Quality
- LED Drivers – High Efficiency
- High Temperature (250° C) ASIC's
- Instrumentation Grade Amplifiers and Filters
- MEMs Drivers – High Voltage

Nabto (www.nabto.com)

Remotely Locate, Manage, Control your Sensors/Devices with your Web Browser using your Smartphone or PC!

- Provides Embedded Software for your Device and Plug-In Software for your Smartphone/Tablet or PC
- UDP “Hole Punching” -
- Fast time-to-market your Product/System – Get up and running in less than 4 weeks!

Plessey Semiconductors (www.plesseysemi.com)

EPIC Sensors – Dry Contact Heart Rate Monitoring (No Gel) / Surface Mount LED Products

- EPIC – Electric Potential Sensing – Scalable from Single Electrode (i.e. EKG) to Linear, Two Dimensional Arrays
- High Sensitivity High Impedance (Patient Safe) Chips, Modules, Eval Boards
- MAGIC LEDs – Ultra Thin, PLCC Packaging, GaN-on-Silicon die Technology

Q-Tech (www.q-tech.com)

High Reliability & Space Qualified Hybrid Crystal Oscillators for Military (QPL) and Space Applications

- Space Qualified Clock Oscillators and TCXO XO, VCO, VCXO, TCVCXO, TCXO, MCXO
- QT2010 MCXO Product Line - Very Low Power Consumption vs. Stability – “Most Oven Oscillators are now obsolete”
- Space Qualified SAW Oscillators – Low Phase Noise VCSO, 450MHz – 1.3GHz

Radiocrafts (www.radiocrafts.com)

ISM Band Embedded Wireless Transceiver Modules based upon TI/Chipcon highly integrated Chips

- For Wireless AMR and Sensor Networks IEEE 802.15.4, ZigBee and 6LoWPAN Modules, 12.7 x 25.4 x 2.5mm
- Plug-n-Play Range up to 5-6 Km RF modules for ISM bands at 315 / 433 / 429 / 868 / 915 / 2450 MHz

RTX Telecom / RTX Technology (www.rtx.dk)

Technology Division – Providing Solutions and Services in the Wireless Arena

- RTX4100 Wi-Fi Module – Standard product ideal for power sensor and automation solutions - 802.11b/g/n
- Product Development in the form of a module for integration in a final product, or as a final product
- Design & Pretest Services Test Equip & Support Tools OEM/ODM Products

SDP (www.sdptelecom.com)

Radio Backhaul, Site Solutions, In-Building Solutions, Components

- POI, Combiner Matrix's, Indoor and Outdoor Antennas, Power Splitters, Terminations and Attenuators
- Tower Mount Amplifiers (FDD and TDD Technology), Combiner Modules, Filters, Duplexers, RNA Accessories

Sensolute (www.sensolute.com)

Micro Vibration Sensor (MVS) - Detection of Tilt, Motion & Vibration

- Surface Mount OmniDirectional and UniDirectional sensing – Passive – NO CURRENT draw!
- Replaces Accelerometers or Augment your Accelerometer – Requires NO SIGNAL CONDITIONING
- 2.85mm x 2.45mm x 1.7mm High Quality – Low Cost Made in Germany

Vanguard ems (www.vanguard-ems.com)

Providing Leading-Edge Manufacturing Solutions – PCB and HLA – Program & Supply Chain Management

- Test and Inspection Tools Lead Free Processes Lean Manufacturing Practices
- High Mix Manufacturing capabilities High level Assembly ISO-9001, ISO-13485, AS9100, ITAR and COM

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[Signal Integrity Website](#) [Low Energy/Wearables Website](#) [RF/Microwave Website](#) [Mil/Hi-Rel Website](#) [Optical Network Products Website](#)