

Find out how we can
simplify *your* life...

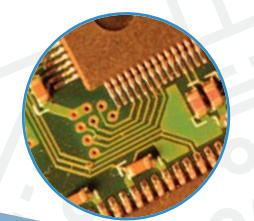
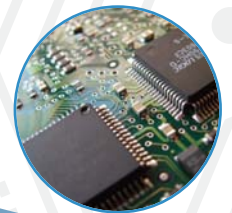
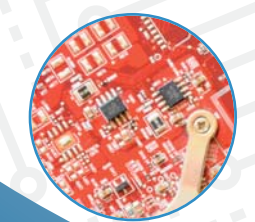
Distribution Services
Obsolescence Management
Value Added Services
Custom Packaging
Material Management

30
YEARS

Since its founding in 1993, All Tech has become the most recognized Small Disadvantaged Business (SDB) distributor serving the defense and aerospace community. In our nearly three decades, we have developed a diverse network of partners to give our customers the best of both worlds – access to the comprehensive resources they need combined with the flexibility and service only a small business can deliver.

simplifying DISTRIBUTION

All Tech is a full service AS9120 and ISO 9001:2015 Certified franchised stocking distributor and DMS Obsolescence solutions provider.



A Franchised Small Disadvantaged Business Option

As aerospace specification 5553 directs OEM'S to use franchised sources only, All Tech Electronics is a natural choice with the added benefit of being an SDB (Small Disadvantaged Business).

Over the years, we've added a range of services designed for a complete end-to-end solution to help simplify sourcing for our clients with:

- **Custom Packaging and Material Management** so you can get parts to your exact specifications without having to outsource to multiple suppliers.
- **DMS Obsolescence Management** to protect the integrity of your product through its entire life cycle
- Other **Value Added Services** including BGA reballing, tape and reel, trim and form, among others

What Makes Us Different

When you choose All Tech, you are working directly with a decision maker in our company. By developing relationships with a wide variety of packaging and test houses, we give you access to a number of services all in one place. With these resources, we are able to respond to your needs much faster than many of our competitors. We can deliver your product the way you want it, when and how you want it.

Our Clients

A critical factor in our success has been the overwhelming support our program receives from the largest defense contractors in the industry. Manufacturers of defense systems have established very aggressive goals and high standards regarding the use of SDB companies when sourcing electronic components.

All Tech holds corporate pricing agreements and is a preferred supplier with the following customers to name a few:



Company Statistics

Established: 1993

Status: Certified Small Disadvantaged Business by National Minority Business Council

Business: Franchised / Authorized Supplier of High Reliability, Mil Spec, Space and Commercial Semiconductor products to the Defense, Aerospace and Space Markets

Product Offering: Diodes, transistors, and integrated circuits as well as magnetic and passive products. A DMS Obsolescence solutions provider with decades of product expertise providing Value Added programs and services.

Quality Overview:
 AS9120 & ISO 9001:2015 GIDEP – Member
 JEDEC – Participant International Aerospace Quality Group (IAQG) – Registered QSLD Certified Distributor



Because it can be years from design to production, All Tech offers a full range of services to help you minimize the impact that rapidly changing technology can have on your end products. As a full service DMS/Obsolescence solutions provider to the defense, aerospace and space applications market – we deliver all the necessary tools to solve and manage your ongoing DMS challenges.

Making Obsolescence Obsolete



DMS Tools from All Tech Electronics

Electrical Testing and Up-Screening

- Die and Wafer IP Banking and Vaulting
- Product Packaging and Assembly
- Die, Wafer and Package-Level Testing and Up-Screening
- DPA
- Counterfeit Mitigation
- Custom Silicon ASIC/Hybrid Assembly and Testing

Semiconductor Solutions

- Form, Fit and Function Direct Replacement of FPGA with ASIC
- Replacement Parts for Legacy FPGAs
- “Trusted” Rad Hard solutions available

All Tech also gives you a reliable, quality alternative to in-house resources with:

- Multiple focused resources available
- EE Resource for technical support
- Cross resource functionality
- Multi level quote capabilities
- Multi source solutions

No matter what your need, we’ll work with multiple resources and leverage their combined capabilities to deliver a completely finished solution. Choosing All Tech Electronics as a partner is also an effective way to develop new resources to complement the work done in-house with your own people.

Obsolescence Solutions

- Commercial, Industrial, Military and Space Level Solutions
- Multiple Package & Assembly Options
- Full electrical test from -55° to 200° C +
- Mitigates “Counterfeit Mitigation”
- Evaluation units may be available prior to commitment

Custom Packaging, Assembly and Test

- QML Certified MIL-PRF-38535 & 38534 Sources
- Die/Wafer Banking and Package level Testing/up-screening
- Full custom silicon ASIC/Hybrid assembly and test (Trusted facility)
- FPGA to ASIC conversions
- Full Test and Foundry Services Available (Trusted Options Available)
- Full Value added services program from Reballing to Tape and reeling

Bill of Material Analysis

We can also do a risk analysis for you – identifying which parts are high risk and making recommendations on how best to manage obsolescence, whether that’s developing new sources for parts or identifying replacement parts. Once we develop an obsolescence solution, we can design and manage that through our Material Management program.

Quality Initiatives

At All Tech Electronics, **we only source from Original Component Manufacturers** and we maintain control over the entire process. This helps us eliminate any risk that your design will be compromised by counterfeit parts.

As we are **ISO 9001 and AS9120 certified**, we distribute products using the highest quality and reliability standards including documentation, purchase order approval process, incoming product inspection, inventory checks, shipping inspection and continuous improvement.

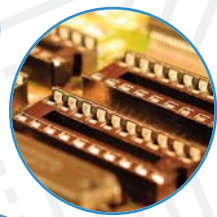
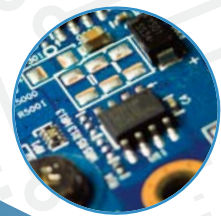


JESD 31
JESD 625

AS9146
AS5553
AS6496

In response to the concerns of our clients along with changes we have witnessed in the aerospace and defense market, All Tech Electronics has developed a Value Added Services program to streamline and simplify component modification processes. We continue to survey our customers and adapt to evolving marketplace needs adding new services as required.

All Tech has provided Value Added Services on hundreds of thousands of components in our 25+ year history.



Flexible Solutions

To meet your component modification and testing needs, All Tech offers a suite of Value Added Services to address many of your component modification and testing needs.

Affordable BGA Reballing and Restoration Services that includes RoHS to SnPb conversions as well as SnPb conversions necessary for RoHS-compliant manufacturers to continue a leaded process

Flexible services for **automated and manual taping** based on industry standards for a wide variety of standard surface mount, radial, axial and custom component package types

Automated tinning services for restoring the finish and soldering properties of leads in both through-hole and surface mount devices as well as RoHS to SnPb and SnPb to RoHS conversions

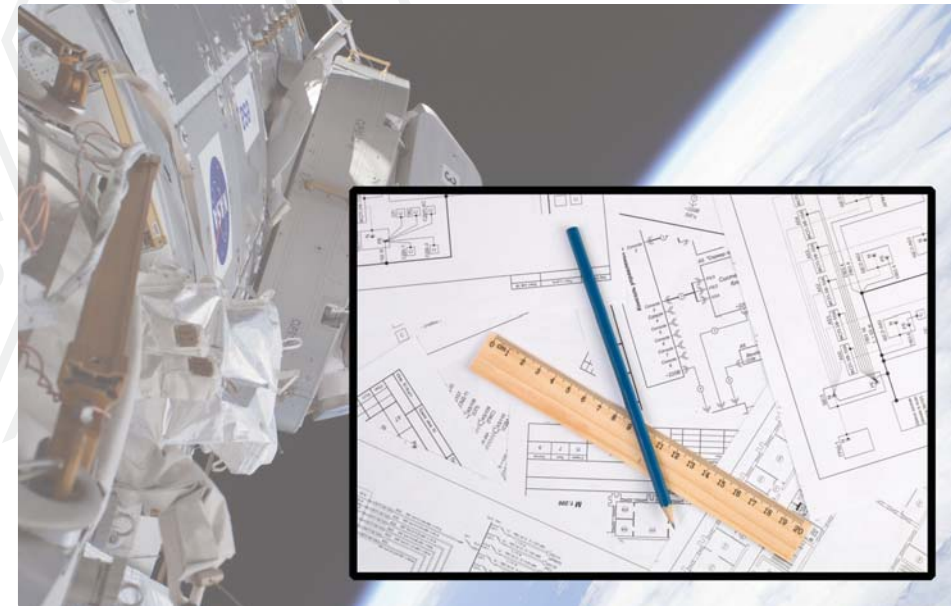
Trim and form services with automatic and manual processing, extensive cropping and forming capabilities, active and passive component processing, axial to radial lead forming servicing and snap-in and stand-off forms

We also give you access to services such as bake and dry pack, PCB refurbishment, die banking solutions, upscreening components and more. Our goal is to provide a comprehensive, complementary and competitive service for electronic manufacturing and component distribution

Semiconductor Services

All Tech also offers:

- Upscreened Components – “up screening” components to meet your requirements.. We will process lot sizes from small to high production volumes
- Value added processing and supply of Semiconductor Bare Die
- Die Banking solutions
- An All Tech sales rep is ready to discuss your requirements!



Custom Products and Services

- Diodes
- Transistors
- Hi Rel Memory
- Linear IC's
- Relays
- Connectors
- RAD Hard Devices
- RAD Tolerant Devices
- Custom Device Packaging
- COTS / PEMS
- DMS / EOL
- Robot Controlled Tin Dipping
- Device Testing
- Programming
- BGA Reballing
- Die Banking
- PCB Rework
- Package Trim & Form



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Since our inception in 1993, All Tech Electronics has established itself as a franchised stocking distributor and DMS Obsolescence solutions provider, specializing in military grade high reliability semiconductor products and Value Added Services. Our partnerships with quality manufacturers assures you that you can find all the parts you need — even custom or obsolete parts — in one place and not have to compromise on quality or price.

We are an AS9120 & ISO 9001:2015 Franchised Certified SDB providing products and services to the following standards:

- M19500 - JAN, JANTX, JANTXV, JAN 'S' SX, MX
- M38510, 883, DESC/SMD, 5962, Rad Tolerant, Space
- M28750, M28776, M39016
- M55302, 28748
- MIL-PRF-38534 & MIL-PRF-38535
- For solder coverage - GEIA-STD-0006 requirements for robotic solder finish on electronic components
- IPC/ANSI J-STD-001 - For Trim and Forming and Hot Solder Dip
- IPC/ANSI J-STD-002 - For Solderability Test
- ANSI STANDARD EIA-481 - For Tape & Reeling

Product Offerings

Diodes

Rectifiers

Bridge Rectifiers
Full Wave Rectifier (Power Diodes)
Half Wave Rectifier (Power Diodes)
Schottky
Silicon Switching
Switching diodes
TVS Rectifiers
Ultra-Fast Rectifiers
Zener diodes, TC Zener

Regulators

Current regulators
Temperature compensated Zener

Suppressors

Transient voltage suppressors

Transistors

Bi-Polar
ECL – High Bandwidth
Half Wave, High Current Assemblies
Half Wave, High Voltage Assemblies
High Voltage + (High/Med/Low) Power
JFETs
MosFETs
Power transistors
RF Small Signal
Silicon Darlington
Silicon Dual Differential Amplifier
Single Phase Center Tap and Doubler Assemblies
Single Phase Full Wave Bridge Assemblies
Small Signal
Three Phase Full Wave Bridge, Center Tap and Doubler Assemblies

ARINC 429, 571, 575

Data Bus Interface
Line Drivers
Line Receivers
Transceivers

Integrated Circuits

Custom Packaging

Hybrid/MCM Memory DRAM

EEPROM
Flash
IPEM DDR2
Mixed Module
SDRAM
SRAM
SSRAM
UVEPROM
VRAM
MRAM
FPGA / ASIC
Microcontroller CSP
Microprocessors

Broadband Converters

ADC & DAC Devices Linear

Voltage Regulators
Operational Amplifiers
Voltage Comparators
Logic
AC/ACT
FCT
ECL
Analog, Mixed Signal RF

Relays

Electromechanical Relays
Industrial Solid State Relays
Military Solid State Relays
Space/Hi-Rel Relays
Space/Hi-Rel Coax Switches

Capacitors

High Voltage Capacitors

Resistors

Array
Ceramic
Precision Foil
Silicon
Thick or Thin Film

Analog / Mix Signal

Power Line Communications

Display PLC Modem SoC
ITU-Standards PLC Modem SoC
Multi-mode PLC Display Modem SoC
Universal PLC Modem SoC

Power Management

AC/DC/AC Converters
Active ORing Controller Module
Battery Chargers
Bi Directional Constant Current Source Controller
Charge Pump & Current Sink LED Drivers
Charge Pump Regulators
Digital Controllers
Hot-Swap Controllers
LDO – Low Dropout Regulator
LED Inductive Boost LED Drivers
Linear Regulators
Load Switch ICs
MOSFET Drivers
Multi-Channel Solid State Power Controllers
Boards & Enclosures
Power Factor Correction
PWM Controllers
References
Rugged VME DC-DC Converters
Solid State Power Controllers:
Single Channel
Modules
Solid State Relay & Contactors
Special Functions
Switching Regulators

Circuit Protection (TVS)

ESD Protection
ESD-EMI Filter Devices
High-Current Lightning Protection
Low-Capacitance ESD Protection
Low-Voltage ESD Protection

Wireless & RF

Internet of Things (IoT) / Machine to Machine (M2M)
Limiter with LNA
Low Noise Amplifier
Medium Power Amplifier
RF Inductors
RF ISM Receivers and Transmitters
RF ISM Transceivers
RF Transformers
Variable Gain

Analog Controllers & Sensor / Converters

Piezo & Mems Actuators
Touch Interface Products
Capacitive Touch Controllers
Keypad Touch Controllers
Resistive Touch Controllers (single, multi)

Optical

Clock and Data Recovery
Hall Effect Sensors
LED or IR LED
Laser Modulator Drivers
Limiting Amplifiers
Phototransistor, photo Darlington, photodiode outputs

Receiver Optical Sub-Assemblies (ROSAs)
Tempest Optocouplers, multiple channel
Optocouplers, radiation tolerant
Optocouplers
Transimpedance Amplifiers

Broadcast Video

Cable Drivers
Crosspoint Switches (Video)
Equalizers
Reclockers
SDI Receivers & Transmitters
Timing
Video Optical Modules

Security/Surveillance Video (HD)

Aviia / HDcctv
Timing & Synchronization
Jitter Attenuation, Multiplying PLL
PLL Frequency Synthesizer
Synchronous Equipment Timing
Source PLL
Timing over Packet Networks (ToPSync)

IO Expanders

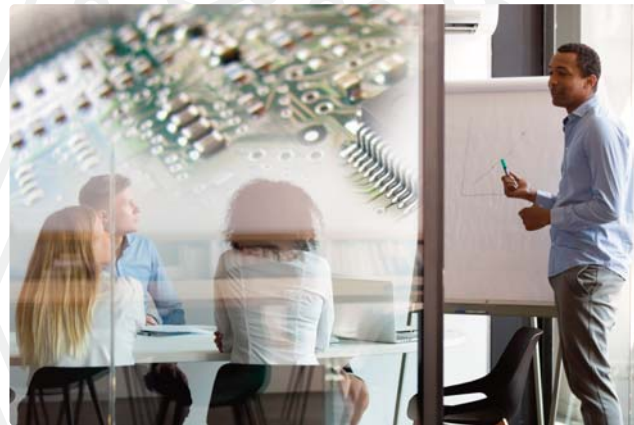
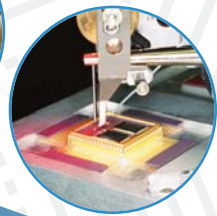
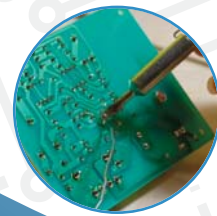
Motor Controllers

3-Phase BLDC Motor Drive Assembly, Driver
Output to 20A, 1200V
EMI Filter- 3 Phase Brushless DC Motor Control
Field Oriented Controller (FOC)-Sensorless
Digital Vector Motor Drive
Fully Integrated Brushless Motor Controllers:
Sensorless, Speed/Velocity, and Torque
IGBT and MOSFET Brushless Motor Drivers
Integrated Multi-Axis Motor Controller System
Motor Control Box
Magnetics
Common & Differential
Dual Inductor, Self-Leaded, Toroidal
EMI/RFI
Filtering Inductors
Power Inductors and Chokes



All Tech Electronics has a complete portfolio of products qualified for industrial to space level applications. Our offering includes products from industry leaders listed here. In addition to our standard product offering we offer a comprehensive package of services including DMS Obsolescence, Custom Packaging, Test and Value Added Services. All products and services have undergone rigorous qualification processes in order to ensure suitability for the demanding environment that you work in every day .

We offer world-class products from some of the industry's leading manufacturers.



Mil-Specs Available

Diodes & Transistors – M19500 - JAN, JANTX, JANTXV, JAN 'S' SX, MX

IC's – M38510, 883, DESC/SMD, 5962, Rad Tolerant, Space

Relays – M28750, M28776, M39016

Connectors – M55302, 28748

Products and Services

- Diodes
- Transistors
- Hi Rel Memory
- Linear IC's
- Relays
- Connectors
- RAD Hard Devices
- RAD Tolerant Devices
- Custom Device Packaging
- COTS / PEMS
- DMS / EOL
- Robot Controlled Tin Dipping
- Device Testing
- Programming
- BGA Reballing
- Die Banking
- PCB Rework
- Package Trim & Form

Our Franchised Manufacturing Partners

Integrated Circuits

Micross Components (formerly **Austin Semiconductor / Minco Technology North Penn Technology / Chip Supply/STS Silicon 360**)

Avalanche and KCB

sram, dram, vram, eprom, eeprom, sdram, flash, ddr, die, TI mil memory, custom packaging, value added services

Teledyne e2v

high reliability ic's, microprocessors, data converters, mram, custom packaging, test & assembly

Teledyne e2v Peregrine RF

semiconductor radio frequency integrated circuits (RFICS), DC-DC power management space products hybrids, multi-chip modules, optocouplers, LEDs

Micropac Industries

Apogee Semiconductor

logic devices to 300K RAD (AND, NAND, OR, NOR, XOR, inverter, voter, flip-flop), level translators, transceivers

Pyramid Semiconductor Trusted Semiconductor

sram, eprom, eeprom

Device Engineering, Inc.

ASIC design, analog, mixed signal, RFICs, FPGA development transceivers, receivers and drivers for ARINC 429, discrete / digital converters, mixed-signal ASICs and analog arrays, RF

Tekmos, Inc.

microprocessors, flash memory, high temperature semiconductors, ASICs, custom packaging, DMS obsolescence

Datel Inc.

analog-to-digital converters, digital-to-analog converters, data acquisition systems, image processors, custom solutions ddr2, ddr3, sram, ssd, custom packaging

Stacked Technologies / Logic Devices

ES Components Siliconix / Vishay

JFETS MosFETS and Analog Switches

Diodes and Transistors

Sensitron

rectifiers and transistors

Micross HiRel

diodes, tvs, power discretes, rectifier assemblies

Semicoa

small signal, RF and power transistors, mil spec

VPT Components

diodes—limiter, schottky, varactor, pin, RF switches, amplifiers, limiters, silicon (Si) and gallium arsenide (gaAs)

Solitron Devices

power transistors, diodes, rectifiers, power hybrids

SMC Diodes

rectifiers, tvs and small signal diodes

Electromechanical and Passive

Teledyne Relays

solid state relays (including Mil), coaxial switches

Coaxicom

precision RF connectors, attenuators, terminations, phase adjusters, and cable assemblies

Vanguard Electronics

power magnetics, RF inductors / transformers

Gowanda Electronics

high reliability RF and power inductors, transformers, and magnetics

Incon Connector

pc board, rack and panel

State of the Art

high reliability resistive components



DLA/DSCC
QSLD
Program



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ALL TECH ELECTRONICS

Simplifying DISTRIBUTION

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GOVERNMENT SALES

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To contact All Tech Electronics
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contact form on our website:
alltechelectronics.com/contacts

www.alltechelectronics.com
www.milspecsemi.com



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