

Corporate Fact Sheet

Overview: Beyond Electronics Corporation is a professional electronics and software supplier in three key markets: Defense, Aerospace and Industrial Electronics. The company is an employee owned small business incorporated in North Carolina.

Beyond Electronics provides innovative upgrade solutions to legacy systems as well as rugged products for a variety of new deployments. The company's products are optimized for a wide variety of applications in military, aerospace, communications and industrial markets and are in active use by customers worldwide, including: Caterpillar, Lockheed Martin, L-3 Communications, Raytheon, Boeing and the Thales Group.

Beyond Electronics owes much of its history to a succession of companies starting with Matrix Corporation which was incorporated in 1977. In 2000, Thales Corporation purchased Matrix Corporation and integrated it into its operations. In 2005 Thales decided to move all engineering operations back to France and a decision was made to divest the remnants of Matrix Corporation. Seeing an opportunity to fill a market and sales void, key personnel incorporated Beyond Electronics Corporation (BEC). BEC retained much of the company domestic assets, including software and tools as well as some designs for the support of legacy customers.

Since the incorporation of BEC in December 2005, the company has continued to expand capability and focus efforts more toward target markets. BEC has a wealth of experience. This includes deploying mission critical hardware and software in:

- heavy and light rail applications
- wheeled and tracked vehicles
- ground support equipment
- high performance aircraft
- radars, sonars, etc.

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BEC has further refined its target market to include opportunities which contain:

- Embedded high speed computer platforms
- Obsolescence and EOL elimination through design and management
- Highly efficient drivers and low level code
- High speed communications: PCI, PCI-Express, Hotlink, ATM, FDP etc.
- Conduction and convection cooled products

Certification: BEC is ISO9001:2008 certified and requires that all manufacturing partners to be certified.

Products: BEC's product line allows designers to build highly integrated real-time systems for the most demanding applications in defense, aerospace, transportation, communications and Industrial equipment including: Single Board Computers (SBCs) and high-performance computing nodes; PMC modules for all I/O and networking functionality; and racks in industrial and ATR format. Recent key products include:

- PMC-ATM OC-3 ATM NIC that is backward compatible to older products while eliminating obsolescence and support problems
- Freescale i.MX27 quad Conduction Cooled VMEbus board
- AMCC PPC460EX Conduction Cooled VMEbus Processor
- Precision System Timer – NTP, OCXO, GPS interface
- Conduction cooled power system for ground mobile equipment
- Low Cost PCIe FPGA I/O solution for embedded systems with CAN, serial, timers, watchdog, remote upgrade, memory, etc. This solution includes both Windows as well as Linux host drivers

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Key Competencies:

BEC has several areas of particular strength. These include:

- Embedded Software including: Linux and VxWorks drivers
- High speed digital design
- Extended Environment Design: shock, vibration, temperature
- High levels of signal isolation and protection
- Complex FPGA development, including embedded processors, custom bus interfaces and custom I/O
- Board designs with layer counts exceeding 16 layers, 4 on 4 spacing, micro-vias, embedded thermal paths, etc.
- We work well with flow down system and program requirements

Locations: 3209 Gresham Lake road
Suite 113
Raleigh, NC 27615

Key Officers:

Rich Goodell, CEO rgoodell@beyondelectronics.us
George Schreck, CTO gschreck@beyondelectronics.us

Website: www.beyondelectronics.us