



nitronica



Manufacturer
Advisor
Partner

With over 60 years of manufacturing expertise and the experience to refine products, improve designs and reduce costs, we can help you build your business because we're more than a niche electronics manufacturer, we're a trusted partner.

A manufacturer alone will not add maximum value to your business but a company with the experience and ability to manufacture, advise and partner with you can. Nitronica specialises in supporting organisations in numerous sectors with its breadth of capability, from Cable assemblies and PCB assemblies through to the design, refinement and supply of high quality, integrated products. It is this inherent strength of our offer that continues to attract internationally respected clients.

Our Capabilities

Full Product Build

- ▶ Vertical Integration
 - ▶ PCB assembly
 - ▶ Cable assembly
- ▶ Reverse Engineering
- ▶ Cost Reduction
- ▶ Design for Manufacture
- ▶ BOM Creation
- ▶ Test Development
- ▶ Low to high complexity
- ▶ Low cost, best in class supply chain partners
- ▶ Shipping to end customer
- ▶ Experienced Mechanical & Electrical Engineers
- ▶ Heavy Lifting Capability



Cabinet Integration

- ▶ Vertical Integration
 - ▶ PCB assembly
 - ▶ Cable assembly
- ▶ Reverse Engineering
- ▶ Cost Reduction
- ▶ Design for Manufacture
- ▶ BOM Creation
- ▶ Test Development
- ▶ Thermal Management
- ▶ Low to high complexity
- ▶ Shipping to end customer



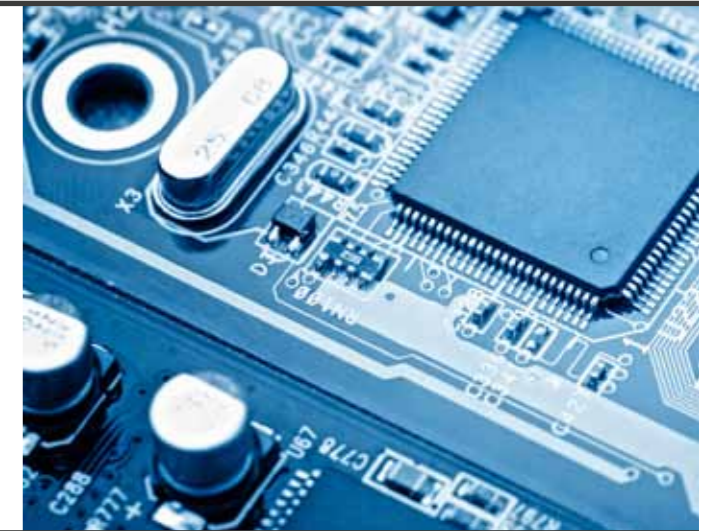
Electro Mechanical

- ▶ Vertical Integration
 - ▶ PCB assembly
 - ▶ Cable assembly
- ▶ Reverse Engineering
- ▶ Cost Reduction
- ▶ Design for Manufacture
- ▶ BOM Creation
- ▶ Test Development
- ▶ Low to high complexity



PCB Assembly

- ▶ Flexible, high speed automatic surface mount placement, up to 20,000 components per hour
- ▶ Automatic placement of components 01005 to 50x50mm, full BGA and micro BGA capability
- ▶ Mixed technology, plated through hole (PTH) and mixed technology – automatic and hand assembly to IPC 610 Class 3
- ▶ Backplanes, including press-fit technology
- ▶ RoHs and non RoHS automatic assembly lines
- ▶ In-line automatic optical inspection (AOI)
- ▶ In-line Flying Probe test
- ▶ Prototype, low, medium and high volumes



Cable Assembly

- ▶ Fully Automated Cutting Lines
- ▶ Hand and Machine Preparation
- ▶ Terminations for:
 - ▶ Crimp
 - ▶ Co-axial
 - ▶ IDC
 - ▶ Ribbon
 - ▶ Wire Wrap
 - ▶ RF
 - ▶ Fibre Optics
- ▶ Complex Looms
- ▶ Complex Assemblies
- ▶ 100% Inspection & Test



Adding Value

Nitronica aims to bring the best possible quality and value to its customers. Throughout our history we have developed and maintained a reputation for excellence.

We continuously strive to improve our standards through a programme of process review and investment in high specification technology in all areas of our business.

Nitronica is at the cutting edge of processes and technological advancement in its sector and leads the field in flexible and cost effective Contract Electronics Manufacturing.

We add value to your business through our engineering expertise and knowledge. We achieve this using a combination of processes appropriate to each project, for example; design for efficient manufacturing, recommending cost reductions, streamlining product design, ensuring the best possible supply chain management and providing rigorous testing facilities. These measures typically achieve efficiencies that result in improved product build and reliability.

Furthermore, we have a dedicated New Product Introduction (NPI) team working from the early stages of the product development or transfer process to reduce costs; in doing so we maximise quality and efficiencies to reduce timescales.

When necessary, we can place a member (or members) of our experienced NPI team into your premises to ensure the smooth introduction of a new or existing product. We can also reverse engineer products/assemblies and create bills of materials to allow outsourcing where manufacturing information is not available or is not complete.

Cost Reduction

- ▶ Experienced Purchasing Team
- ▶ Re-engineering Capabilities
- ▶ Class Leading Global Supply Chain
- ▶ Efficiency of Production Processes
- ▶ Transparent Cost Structure
- ▶ Vertical Integration
- ▶ Customer Focus

Design for Manufacture

- ▶ Design Engineering Capabilities
- ▶ Re-Engineering Capabilities
- ▶ Award-winning Design Partners
- ▶ Customer Focus

New Product Introduction

- ▶ Dedicated NPI Team
 - ▶ Dedicated NPI Buyers
 - ▶ Dedicated NPI Engineers
- ▶ Robust, proven NPI process
- ▶ Daily project review
- ▶ Transparent process with milestones
- ▶ Upfront cost reduction suggestions
- ▶ Streamlining production costs
- ▶ Reduction of time to market

Quality & Engineering

- ▶ ISO 9001:2000
- ▶ ISO 14001
- ▶ Member of ADS (Premier Trade Organisation for UK Aerospace, Defence, Security and Space Industries)

Supply Chain Management

- ▶ Experienced Supply Chain Team
- ▶ Extensive Global Supply Chain Network
- ▶ Strategic Alliances/Partnerships

Test & Test Development

- ▶ Extensive array of in-house testing facilities
- ▶ Highly qualified Test Engineering Team
- ▶ Development of custom test procedures
- ▶ Building of bespoke test systems
- ▶ Wide range of in-house test hardware
- ▶ Teradyne in-circuit test
- ▶ In-line Flying Probe (fixtureless)
- ▶ In-line AOI systems
- ▶ Customer specific PC based test fixtures
- ▶ XJTAG boundary scan

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