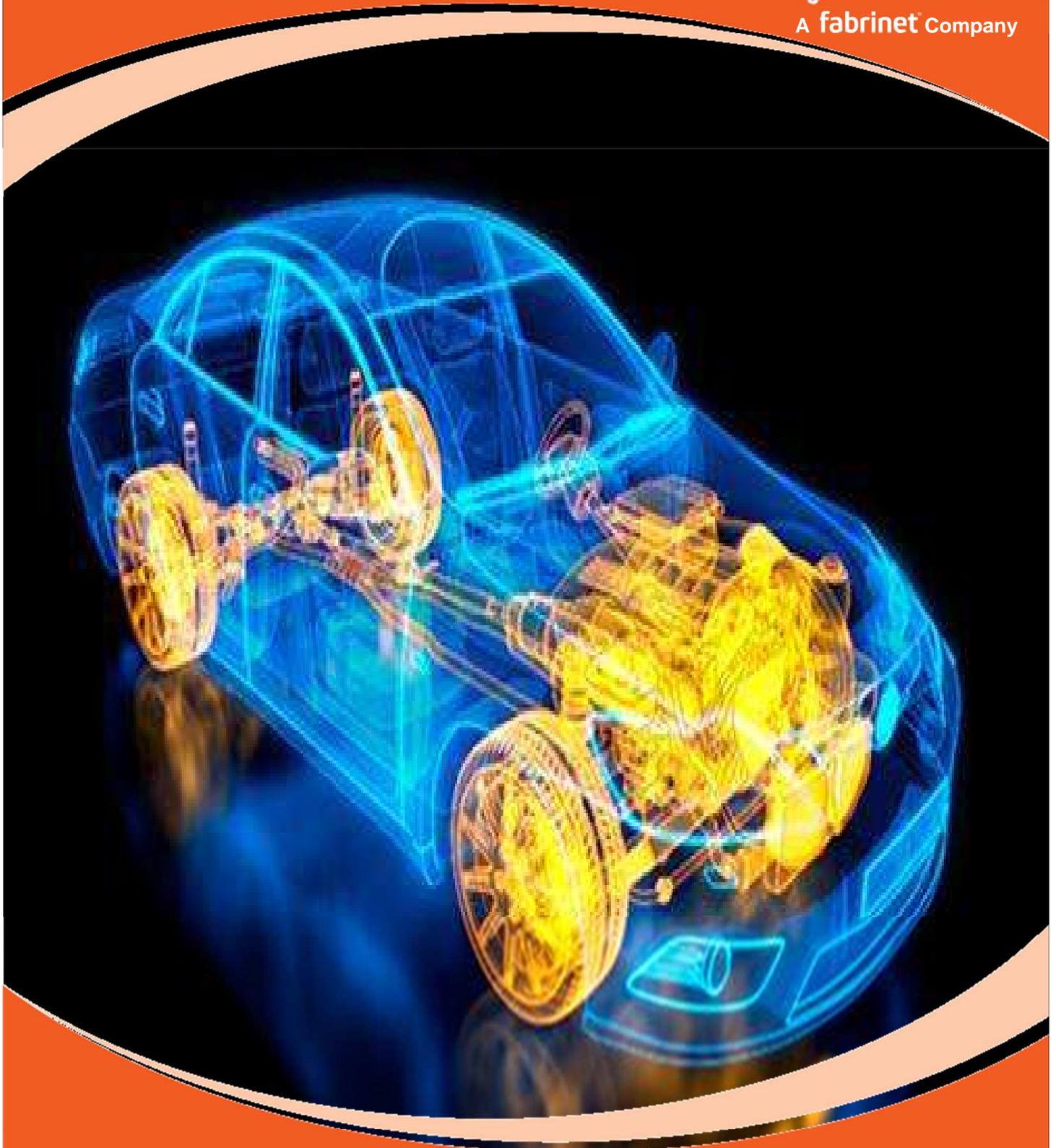


Exception

Delivering Global CEM Solutions
A fabrinet Company



**High reliability electronics for
Automotive & Transport Infrastructure**

Automotive & Transport Infrastructure Solutions ...

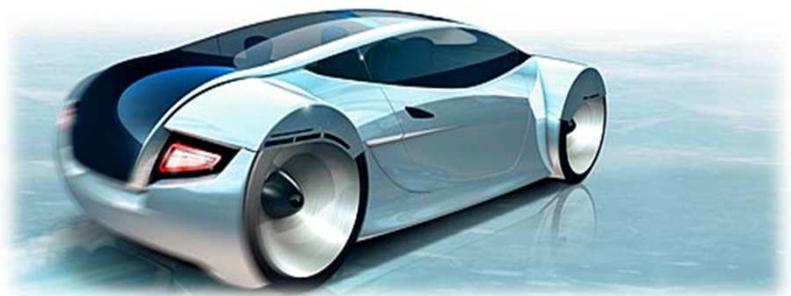
Exception has long recognised the demanding requirements of its automotive customer base, from the need for fast-changing technological solutions to the aggressive yearly cost down drivers. Our experience in delivering lean manufacturing and zero defect programmes sets us apart from other electronics outsourced partners

At Exception, we offer our automotive clients a risk free solution. Our dynamic, engineering-led team work closely with clients' design engineers from project conception to deliver value engineering solutions that produce a technologically sound end product, suitable for mass production

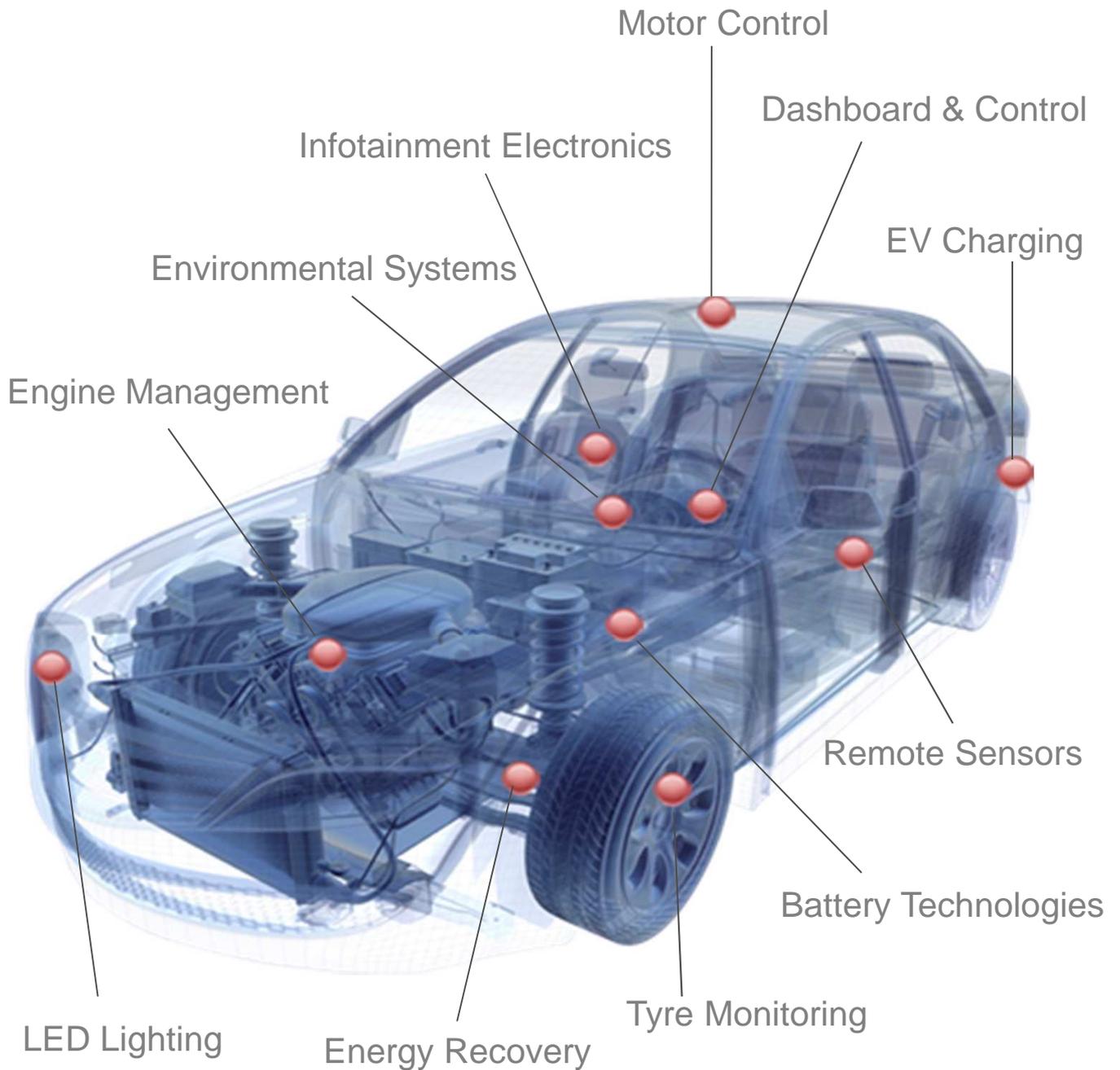
Utilising a range of testing capabilities and providing meaningful feedback direct to design, we strive to obtain a zero parts per million (PPM) defect rate right through to industrialisation of the product

Developing strong links with our clients, our UK team and offshore partners work to meet the client's internal quality goals and to provide year on year cost reductions. As one of Europe's leading manufacturers and suppliers of PCBAs and other bespoke components, Exception has built strategic partnerships with 'Best in Class' mass production manufacturers in low cost economies to deliver a combination of the highest quality and maximum value

Providing fast and comprehensive logistics solutions and lean supply chain management, coupled with our value engineering processes, Exception has consistently achieved and surpassed the targets set by its automotive clients, from tier 1 suppliers to Formula 1, Exception's pedigree in this most demanding of fields is unparalleled



Automotive Experts in ...



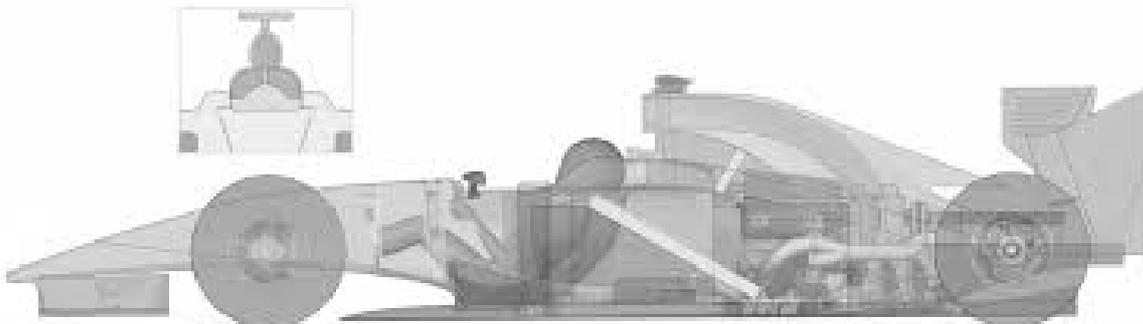
Supply and Demand

'On-Demand' is a fully equipped technology driven manufacturing facility that offers enhanced flexibility to support rapid and complex assembly services

We believe that Exception's 'On-Demand' service is unique within the Electronic Manufacturing Service Sector offering:

- Full turnkey quotes from 3 days
 - 'On-Demand' capacity available to you when you need it!
 - Dedicated plant and personnel
 - 24 hours a day, 7 day per week with ability to reserve a production slot
 - Post build manufacturing reports
 - Full transparency during quotation and fulfilment cycle
-
- Labour only quotes in 24 hours
 - Robust technical and fulfilment processes
 - Continuous investment to support leading edge technology
 - Access to high value "Tier One" professional services (advice/insight)
 - Bill of material (BoM) obsolescence review and reporting

We believe that no other quick turn service can provide such technically advanced products to such demanding timescales



.... *Delivering time critical and technically challenging solutions*

There are occasions where scheduled assembly capacity is not available or where you can not afford the risk (commercial, contractual or reputational) of missing a delivery deadline

Scenarios where you might need quick access to additional capacity might include requirements for:

- **Bypassing scheduled production due to an urgent demand**
- **Guaranteed delivery dates for assembled product**
- **Need to recover time lost from incremental design iterations**
- **Access additional capacity to guarantee meeting internal deadline**
- **Introducing a new product to the market**

It is not just about time and speed, our '**On-Demand**' service also supports challenging designs, this due to the very nature of the component selection and application

- High Temperature Soldering (HMP)
- New component packages not yet released into the market
- High density and fine pitch connectors
- 01005 resistors and capacitors
- LED placement
- Temperature Sensitive Devices
- 0.3mm μ Ball Grid Arrays
- Collaborative approach to exploring new concepts and ideas

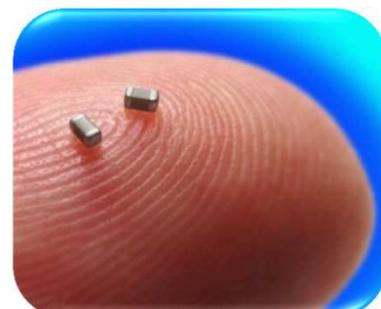


Image courtesy of Murata Europe

Comprehensive Risk Free Manufacturing Excellence

Many leading Automotive & Transport Infrastructure providers utilise the ‘**On-Demand**’ service due to the ability in offering a quick solution with honest and practical advice during the early stages of the product life-cycle. This can often drive a reduction in product cost and lead-time and increase manufacturing efficiency when the volume increases.

- Dedicated commercial and operational team:
 - **10x IPC Class III Manufacturing Associates**
 - **4x Supply Chain experts**
 - **3x QA Engineers**
 - **3x Production Engineers**
 - **Day to Day Account Manager**
 - **Dedicated Technical Sales and Project Managers**
- Separate and bonded Stores for customer owned materials
- Mydata SMT lines equipped to place 01005 passive devices
- Yxlon 2D BGA X-ray with 360° rotate and tilt function
- Vapour Phase & Convection Reflow
- Full AOI and Takaya Flying Probe Electrical Testing
- Ersa Scope BGA Optical Inspection
- ESS (environmental stress screening)
- Vibration Testing

Design Stability ~ Added Value & Services

- Low-Medium Volume contract electronic manufacturing in the UK (200+ staff)
- High Volume Offshore PCA, managed by our UK management team
- System Integration and full box tested solutions

Contract Electronic Manufacturing Solutions

... Global Electronics, serviced locally



Solutions Management

Understanding the requirements at the early stages of each design and knowing when and where to build your product once signed off is essential. At Exception having the 'On-Demand' service prior to our global network of best in class manufacturing facilities is essential in ensuring the design is fit for volume and stable to transfer. All of this is managed by our own centre of excellence facility in the UK

Whether its prototyping, a special project or high volume we have a solution



UK HQ ~ Centre of Excellence
On-Demand – time critical and special projects
High Mix Low to Medium Volume Manufacturing



US Sales Office – Houston, TX
Supply Chain IPO – Penang, Malaysia



4x Manufacturing Sites
(Malaysia, Thailand, Czech Republic and China)
High Volume Manufacturing



Exception EMS, who are we?

... Delivering Global CEM Solutions on a local footprint

Exception EMS is a leading design and manufacturing service provider, offering an effective end-to-end capability for the design and manufacture of complex electronic systems

Based in the UK, with strategic partners in low cost regions, Exception provides professional and accessible electronic design and manufacturing services to a wide range of clients from start-up through to global multi-site blue chip OEMs, and has particular in depth knowledge and broad experience in niche market sectors that require focus around ruggedisation and harsh environments

From PCB's to complete systems, Exception EMS offers expertise in the specification, design, NPI, assembly and test of complex printed circuit boards. Our careful attention to design for manufacture and risk adverse supply chain solutions maximises the life cycle of your product and minimises early obsolescence

Exception EMS provides Contract Electronic Manufacturing (CEM) to OEM's across the globe. This is based around six core competencies;

- **Technical Reporting**; providing pre and post design support to aid design, reduced costs and time to market
- **Professional Services** supporting key consultancy in PCB and mechanical design, supply chain, test development and project management
- **Dedicated New Product Introduction (NPI, On-Demand) PCB Assembly** in the UK
- **Low-Medium** Volume contract electronic manufacturing in the UK
- **High Volume Offshore PCB Assembly**, managed by our UK management team
- **System Integration** and full **Box Build** solutions

Exception EMS's 210 employees work across a single UK location supported by supply chain in Malaysia and a Sales office in Houston, Texas

Exception alongside its strategic supply chain and manufacturing partners are approved to BSEN 9100/AS9100 and/or ISO9001:2000 and control all aspects of the manufacturing process including component supply chain, supplier audit, manufacturing and logistics

Exception are proud to announce over a 30 year pedigree in supporting such prestigious names associated with high reliability electronics within the Industrial, **Automotive & Transport Infrastructure**, Renewable Energy, Networking, Broadcasting, Semiconductor, Oil and Gas and Aerospace and Defence sectors

Comprehensive Design & Support Excellence

... Professional Services

Exception prides itself on adding value at the early stages of product development, even more so during the need to utilise the 'On-Demand' service. Our comprehensive range of first class design, support and manufacturing services is undertaken by OEM's and multiple Blue chip organisations world-wide

Our depth of skill and industry expertise enables us to quickly understand your business, providing honest and practical advice and solutions throughout the entire product life-cycle. This drives a reduction in design times and improves manufacturing efficiency

Offering Value Add to the Process

- Full product design via key partners
- Pre and Post Manufacture Technical Support providing:
 - DfM (Design for Manufacturing)
 - DfT (Design for Test)
 - DfV (Design for Volume)
 - Comprehensive Reporting for continuous improvements
- PCB Design (Schematic Capture and Layout)
- Mechanical Design
- New Product Introduction
- Dedicated Project Management
- Test Development and Test hardware creation



Logo images courtesy of partners

Interested?

Please do not hesitate to contact us for a free, no obligation proposal

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