

.... Transforming component management into a driver for innovation and growth

Managing the supply chain is more critical than ever as obsolescence, counterfeit stock and non-compliance risks continue to grow.

Would you like an effective product information management solution that enables your business to rapidly launch new product introductions, avoid costly production interruptions, product re-designs, and improve sustainability over life?

Exception are able to provide all the information you need to assist you in designing a product that will avoid shortages, provide alternatives for at-risk parts and ensure product longevity from proof of concept through to end of life

- **Obsolescence Reporting**
- **Last Time Buy Information**
- **Counterfeit Alerting**
- **Years to End Of Life Forecasting**
- **Form Fit & Function 'drop-in' Replacements**
- **Identify equivalent parts to meet performance and temperature**

Identifying the right components and supply chain partners, whilst avoiding obsolescence, compliance and counterfeit risks can make the difference between success and failure

...Supply Chain Solutions making the right choice

Keeping up with ever changing technology and the economic uncertainties associated with global supply chains is something that OEM's continue to disregard until its too late

Exception's lifecycle management service enables engineering and sourcing professionals to identify the best components for their products

Comprehensive consistent and accurate information, including:

- **Tens of millions of components from over 1700 world-wide manufacturers**
- **500+ manufacturers constantly being updated**
- **400+ Categories including**
 - Integrated circuits (μ BGA's, FPGA's, QFP, QFN's)
 - Frequency control devices (Oscillators and Crystals)
 - Optoelectronics (LED's)
 - RF/Microwave
 - Fibre optic devices
 - Inductors
 - Resistors
 - Capacitors
 - Electromechanical devices
 - Connectors
- **Powerful parametric searching and cross-referencing across manufacturers**
- **Commercial, Industrial and Military graded parts**
- **Historical traceability of legacy parts**

Additional value added information

- Datasheets (current and historical)
- Application notes and timing diagrams
- Product Change Notices
- End of Life Notices

... Reduce the risk and save on cost

How can your organisation develop successful products and meet these conflicting goals? Information is the key

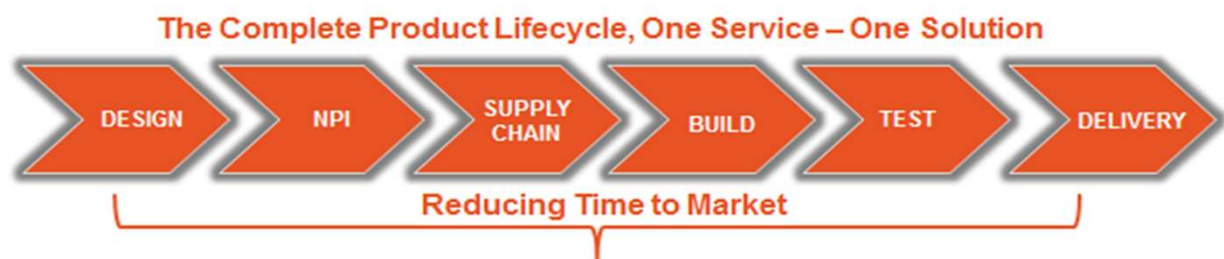
Some manufacturers take a case-by-case approach and address design, obsolescence and compliance issues as they arise. Many rely on disparate, unorganised catalogues or web sites for the latest component and supplier information. Others use spreadsheets to attempt to manage complex product configurations over lifecycles that can last for decades. However, as products become more complex and longevity requirements grow, the cost of getting it right first increases

Reduce Costs – *Optimizing Product Development*

Find the right components and suppliers more efficiently to meet your product design objectives. Exception access to vast data can support your design cycles as it develops

Reduce Risks – *Assured Compliance and Longevity*

Selecting the right components that are free of hazardous substances and get early insight into at-risk parts. Exception can advise on parts that comply with environmental regulations and provide lifecycle forecasts for critical components to prevent late-state changes to designs and assure availability for extended service lives



... Reporting

Detailed analysis of your bills of materials

What next?

Exception can offer flexible costs and proposals to support your interest?

- One time review of BoM (bills of materials)
- Monthly, Quarterly or Six monthly review
- Consolidation of multiple BoM's/line items
- **On-Demand** service (report analysis within 24hrs)

Example of what your report could look like...

Exception Delivering Global CEM Solutions A fabrinet Company		Date: 05th January 2014		BoM Rev B					
		Customer: ABC Electronics		Product Description: Infra Red Camera					
		Top Level P/N: 1234_56 Rev B							
Health Score	Customer P/N	Matched P/N	Matched Mfr	Mfr Status	Life Cycle Stage	Availability YTEOL	LTB Date	Lead (Pb) Free	RoHS Compliant
4.7	AZ23C15	AZ23-C15	GENERAL SEMICONDUCTOR INC	TRANSFERRED	DISCONTINUED-TRANSFERRED	0			
4.7	V120Z46	V120Z46	LITTELFUSE INC	DISCONTINUED	DISCONTINUED	0	01-Aug-2010	NO	NO
5	TAJB105K03SR	TAJB105K03SR	AVX CORP	DISCONTINUED	DISCONTINUED	0		YES	YES
5	NTE0505M	NTE0505M	C&D TECHNOLOGIES INC	DISCONTINUED	DISCONTINUED	0		NO	NO
5	DS5022P-883	DS5022P-883	COILCRAFT INC	DISCONTINUED	DISCONTINUED	0		YES	YES
5	MC912D60AMF08	MC912D60AMF08	FREESCALE SEMICONDUCTOR INC	DISCONTINUED	DISCONTINUED	0	30-Jun-2006	NO	NO
4	ZMM16	ZMM16	DIODES INC	ACTIVE-UNCONFIRMED	DECLINE	< 1			
4.6	LOG21N1R0K10	LOG21N1R0K10B1	MURATA MANUFACTURING CO LTD	ACTIVE-UNCONFIRMED	DECLINE	1 - 2			
3.5	HEF40106BT	HEF40106BT	NXP SEMICONDUCTORS	ACTIVE	DECLINE	4 - 8		YES	YES
2.8	HDSP-U511	HDSP-U511	AVAGO TECHNOLOGIES INC	ACTIVE	MATURE	> 8		YES	YES
2.6	SM8T33A	SM8T33A	STMICROELECTRONICS	ACTIVE	MATURE	> 8		YES	YES
2.9	DS1608C-154	DS1608C-154	COILCRAFT INC	ACTIVE	MATURE	> 8		YES	YES
2.2	DG408DY (MAX308ESE)	DG408DY	MAXIM INTEGRATED PRODUCTS INC	ACTIVE	MATURE	> 8		NO	NO
2.8	LM317ATNOPb	LM317ATNOPB	TEXAS INSTRUMENTS INC	ACTIVE	MATURE	> 8		YES	YES

- **Health Score**
 - provides market view of continued availability of the part (out of 5)
- **Life Cycle Stage**
 - provides current status of component
- **Availability (Years To End of Life)**
 - provides estimated component longevity

For a free no obligation quotation
 please contact our sales team to discuss further

Contract Electronic Manufacturing Solutions



... Global Electronics, serviced locally

Exception EMS, who are we?

...Global CEM Solutions on a local footprint

Based in the UK, with strategic partners in low cost regions, Exception EMS 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, with particular in depth knowledge in niche market sectors that require focus around ruggedisation and harsh environments

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

Exception's 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 employ over 220 staff that 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, Oil and Gas, Renewable Energy, Networking and Broadcast, Semiconductor, Motorsport and Aerospace and Defence sectors

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 in the UK, offering:

- Full turnkey quotes from 3 days
 - '**On-Demand**' capacity available to you when you need it!
 - Dedicated plant and personnel
 - 24hrs a day, 7 day per week with ability to reserve a production slot
 - Post build manufacturing reports
 - Full transparency during quotation and fulfilment cycle
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- Labour only quotes in 24 hrs
 - 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

"Exception's ability to meet exacting turnaround schedules is a crucial element of the relationship between our two organisations"

Adrian Temple-Brown



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
- IPC Training
- New Product Introduction
- Dedicated Project Management
- Test Development and Test hardware creation
- Offshore Expert Partner Management



Altium cādence®



Mentor
Graphics®

Logo images courtesy of partners

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
Supply Chain IPO – Penang, Malaysia



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



Interested?

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

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We look forward to hearing from you