

ELECTRONICS

# sourcing

THE SOURCING GUIDE 2017 - VOLUME 2

THE  
SOURCING  
GUIDE 2017

Volume 2



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# Editor's Word

## Welcome to The Sourcing Guide

Following its successful launch in 2016, the handy A5-size Sourcing Guide has been updated and reprinted for 2017. Designed to help purchasing professionals find new and alternative suppliers, the free Guide is divided into two distinct sections.



Pages 1 to 61 introduce buyers to a plethora of electronics products and services. Categories include: EMC, Connectors and Cabling, RF Connectors, Contract Manufacturing, Resistors, Enclosures, Passives, Excess Inventory Management, Frequency, ICs and Semiconductors, Obsolescence, PCB, Training, Power and Batteries and Thermal Management.

From page 62 onwards, we dig deeper, offering selection charts which breakdown components and services into greater detail. For example, Frequency Management is broken down by crystals, oscillators, programmable oscillators, resonators, VCOs and VCXOs.

Our goal is to help purchasing professionals make informed buying decisions and we are confident The Sourcing Guide will play its part.

*Jon Barrett*

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PUBLISHING

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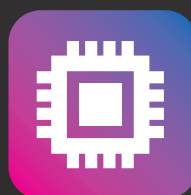
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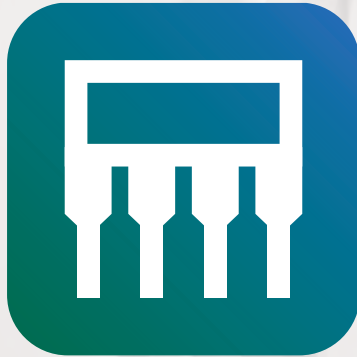


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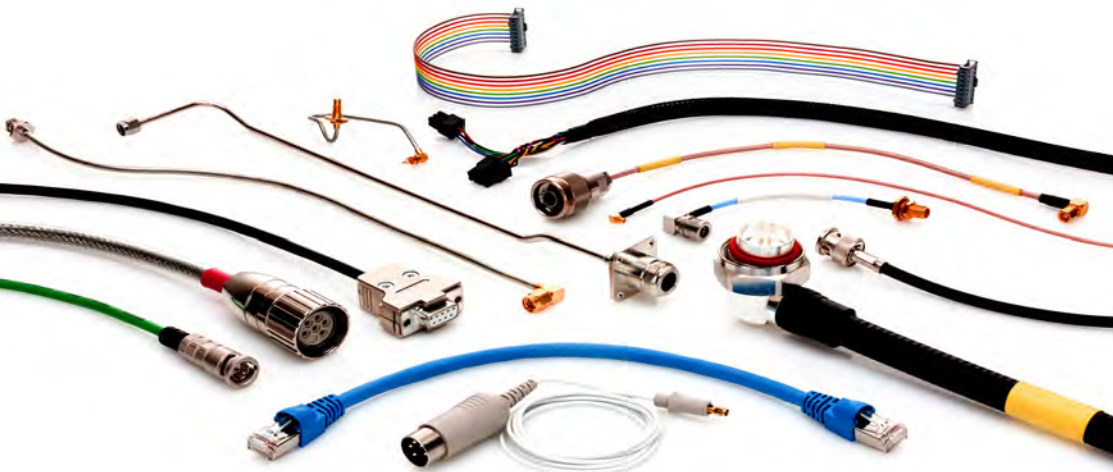


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# Finally, a reversible USB Type A 2.0 connector

**It is amazing that, in 2017, there is still no reversible USB A port in common use.**

Although Type-C connectors promise to end the one-way-only frustration, they have yet to be adopted in any meaningful way with most applications still using Type A for the foreseeable future.

With the introduction of our Reversible female socket, DAU Components is pleased to be able to offer a usable solution. Our USB Type A 2.0 port is available in both horizontal and vertical PCB orientation, making it suitable for most applications. Furthermore, the device is no bigger than a normal non-reversible Type A.

We are particularly proud of this reversible USB following a positive response from some of our biggest customers who can now offer a product range with the obvious advantage of having a reliable and reversible USB A port. Unsurprisingly, the vast majority of the engineers we have offered samples to have said yes.

## **DAU Components: USB's (Universal Serial Buses)**

USB 2.0A Connector  
USB 3.0 Connector  
USB 3.1 Connector  
USB Type .C.



### **Features of the USB 2.0 A**

Standard Electrical spec: 500mA / 5V.  
480Mbps.  
Assembly type: Through hole, SMT.  
Female Receptacle - Straight – Right Angled- Vertical.  
Standard body or short body with edge grip – crimping.  
UL94V-0 Rated Insulator material.  
Typical applications: Hard drives, printers, cameras, smartphones etc.

### **Features of the USB 3.0 A**

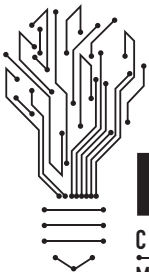
Standard Electrical spec 1.5A / 5V.  
Assembly type: Through hole, SMT.  
Female Receptacle – Straight – Right Angled – Vertical – DIP Reversible.  
UL94V-0 Rated insulator material.  
Typical applications: Keyboards, monitors, printers, gaming consoles etc.

### **Features of the USB 3.1 A**

Standard Electrical spec: 5A / 20V.  
Gen .1. = 5Gbps.  
Gen .2. = 10Gbps.  
Assembly type: Through hole.  
Female Receptacle – Straight – Right Angled – Vertical – DIP Reversible.  
UL94V-0 Rated insulator material.  
Typical applications: Flash drives, smartphones, printers, monitors etc.

### **Features of the USB – C**

Standard Electrical spec: 3A/5V / 12V.  
Power Delivery: 5A/20V (Max).  
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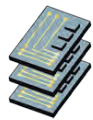
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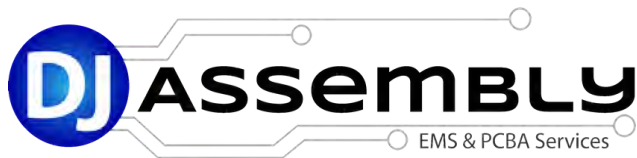


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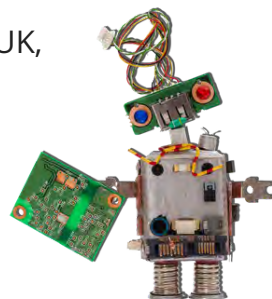
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## RESISTORS - LEADED

- Anti-surge wire-wound
- Ceramic wire-wound
- Metal glaze
- Open frame current sense
- Power flat alloy
- Power metal film
- Precision metal film
- Vitreous enamelled wire-wound

## RESISTORS - SURFACE MOUNT

- SMD Anti-surge
- SMD Anti-sulfurated
- SMD Automotive AEC-Q200
- SMD Current sense
- SMD High power
- SMD Pulse withstanding
- SMD Thin film precision
- SMD Ultra-low Ohm

## RESISTORS - INDUSTRIAL

- Aluminium case high power
- Aluminium case multi value
- Aluminium clad wire-wound
- Cement - radial terminal
- Ribbon power-wound
- Thermal fuse wire-wound

## RESISTORS - VARIABLE

- Cermet trimmer
- SMD trimmer
- Wirewound

## VARISTORS

- Metal oxide varistor
- TMOV

## OPTOELECTRONIC

- Multi-colour LED
- 7-Segment display
- LED cluster
- Dot matrix LED
- LED bar & strip

## CIRCUIT PROTECTION

- ESD suppressor
- In-rush current limiter
- Pico fuse
- Power fuse
- PPTC resettable fuse

## CAPACITORS

- Ceramic multi-layer
- Ceramic SMD
- Ceramic trimmer
- Plastic film
- Snap-in
- Suppression
- SMD & dipped tantalum

## THERMISTORS

- Ceramic PTC thermistor
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- Temperature sensor

## ARRESTERS

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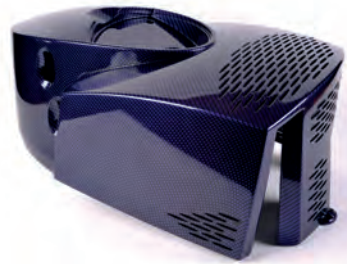


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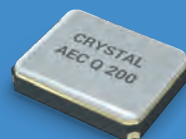
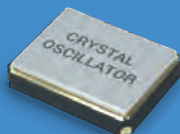
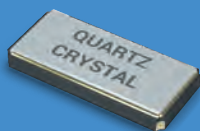




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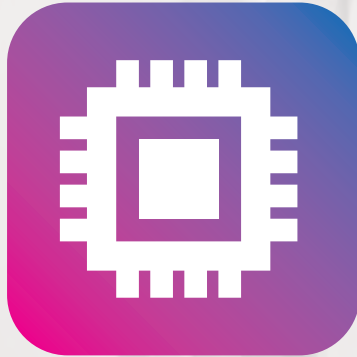
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email: [sales@jauch.co.uk](mailto:sales@jauch.co.uk)  
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## ICs & Semiconductors

Mouser Electronics .....	48
America II Electronics .....	49



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# Obsolescence Management

Rhopoint Sourcing.....	51
Cyclops Electronics .....	52



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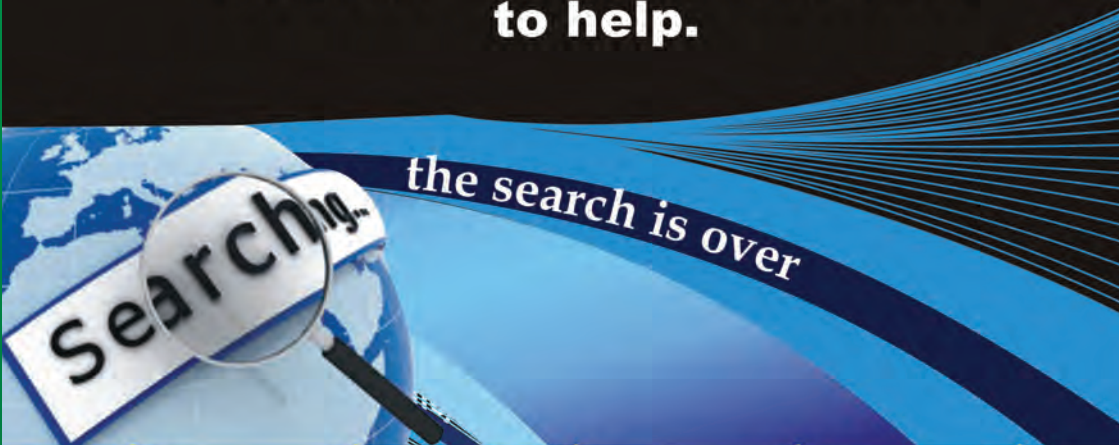




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Requirements for Soldering Electrical and Electronic Assemblies



Repair Rework and Modification of Electronic Assemblies



Requirements and Acceptance for Cable and Wire Harnesses



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## Power & Batteries

Jauch Quartz UK Ltd.....	58
Olson Electronics Ltd.....	59



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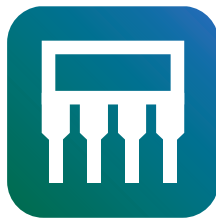
CUSTOM METAL PARTS





# Broadline Distribution

Company	Page	Total number of lines for principal	Minimum order value	Connectors and Cabling	Contract Manufacturing	Displays and LEDs	EMC	Enclosures	Frequency Management	ICs and Semiconductors	Obsolescence Management	Passive Components	PCBs	Power and Batteries	Programming Services	Sensors	Switches and Keyboards	Thermal Management	Wireless Solutions
America II Electronics	8	350	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Anglia Components Ltd	7	1,000,000	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Cyclops Electronics Ltd	52	144,576	£100	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Digi-Key Electronics	6	700	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Electro Enterprises Ltd	16	1,000,000	£25	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Mouser Electronics	10	1,000,000	£0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Rapid Electronics	12	130,000	£0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
RS	9	550,000	£0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*



## Connectors & Cabling

Company	Page	Backplane Connectors	Barrel Connectors	Card Edge Connectors	D-Sub Connectors	Fibre Optic Cables	Modular Cables	Modular Connectors	Multiple Conductor Cables	Rectangular Connectors	RF Connectors	Terminal Blocks	Other
America II Electronics	8	*	*	*	*	*	*	*	*	*	*	*	
Anglia Components Ltd	7	*	*		*			*		*	*	*	
Binder UK Ltd	19												*
Cyclops Electronics Ltd	52	*	*	*	*	*	*	*	*	*	*	*	
DAU Components	20	*	*	*	*	*	*	*	*	*	*	*	
Digi-Key Electronics	6	*	*	*	*	*	*	*	*	*	*	*	
Electro Enterprises Ltd	16	*	*	*	*	*	*	*	*	*	*	*	
Fischer Connectors Ltd	21					*		*	*	*	*		
G. English Electronics Ltd	61						*	*	*	*	*		
M-TEK (Assembly) Ltd	33	*	*	*	*	*	*	*	*	*	*	*	
Mouser Electronics	10	*	*	*	*	*	*	*	*	*	*	*	
OLSON Electronics Limited	59												*
PEI-Genesis	18	*			*	*	*	*		*	*	*	
Prestwick Circuits GPS Ltd	54												*
Rapid Electronics	12	*	*	*	*	*	*	*	*	*	*	*	
Rhopoint Components Ltd	51	*		*				*		*	*	*	
RS	9	*	*	*	*	*	*	*	*	*	*	*	
Speedboard Assembly Services	25												*
Telegartner UK Ltd	17	*	*	*	*	*	*	*	*	*	*	*	



## Contract Manufacturing

Company	Page	BGA Capacity	Box Build	Cable and Harnessing	Design Capability	Prototyping	Surface Mount Lines	Through Life Repair and Maintenance	Other
Corintech Ltd	28	•	•		•	•	•		
Cyclops Electronics Ltd	52		•		•	•			
DJ Assembly	32	•	•		•	•	•	•	
Electrica Ltd	29	•	•	•	•	•	•	•	•
Electro Enterprises Ltd	16		•	•					
Elite Electronics	26	•	•	•	•	•	•	•	•
Jaltek Systems Ltd	34	•	•	•	•	•	•	•	
JJS Manufacturing	30	•	•	•		•	•	•	
M-TEK (Assembly) Ltd	33	•	•	•	•	•	•	•	•
Protronix Industrial Services	27	•	•	•	•	•	•	•	
Speedboard Assembly Services	25	•	•	•		•	•	•	
Trojan Electronics Ltd	31	•	•	•	•	•	•	•	





## Displays & LEDs

Company	Page	Display Modules	LED Lighting	LED - Spacers, Standoffs etc	Other
America II Electronics	8	•	•	•	
Anglia Components Ltd	7	•	•	•	
Binder UK Ltd	19		•		
Cyclops Electronics Ltd	52	•		•	
Digi-Key Electronics	6	•	•	•	
G. English Electronics Ltd	61	•			
M-TEK (Assembly) Ltd	33	•	•	•	
Mouser Electronics	10		•	•	
Prestwick Circuits GPS Ltd	54		•		
Rapid Electronics	12	•	•	•	
RS	9	•	•	•	



## EMC

Company	Page	Beryllium Copper Finger Strips	Cable Shielding Jackets	Conductive Adhesive Tape	Conductive Adhesives	Conductive Silicones	Conductive Fabric over Foam Gaskets	Conductive Foam	Shielded Cable Glands	Shielded Windows	Ferrites and Cores	Ventilation Panels	Other
America II Electronics	8	•	•	•	•	•	•	•	•	•	•		
Anglia Components Ltd	7									•			
Electro Enterprises Ltd	16		•	•	•			•					
G. English Electronics Ltd	61				•					•			
Kemtron Ltd	14	•	•	•	•	•	•	•	•	•	•	•	
Mouser Electronics	10	•	•	•	•			•		•			
PEI-Genesis	18		•					•					
Prestwick Circuits GPS Ltd	54												•
Rapid Electronics	12		•	•				•		•			
RS	9	•	•	•	•	•	•	•	•	•	•		



## Enclosures

Company	Page	Desktop Enclosures Development Board Enclosures	DIN Rail Enclosures	Floor Standing Enclosures	Hand Held Enclosures	Instrument Cases 19inch Rack Mount Enclosures	IP Rated/Sealed Enclosures	Wall Mount Enclosures	Wearable Enclosures	Other
America II Electronics	8	•	•	•	•	•	•	•	•	
Anglia Components Ltd	7	•	•	•		•	•	•		
Beechcraft Ltd	40	•	•	•	•	•	•	•	•	
Digi-Key Electronics	6	•	•	•	•					
G. English Electronics Ltd	61	•			•	•	•	•	•	
Lincoln Binns Ltd	38	•	•	•	•	•	•	•	•	
M-TEK (Assembly) Ltd	33	•	•	•	•	•	•	•	•	
OLSON Electronics Limited	59	•		•		•		•		
PEI-Genesis	18			•			•	•		
Rapid Electronics	12	•	•	•	•	•	•	•		
RS	9	•	•	•	•	•	•	•	•	
Stego UK Ltd	39	•	•	•	•	•	•	•	•	



## Excess Inventory Management

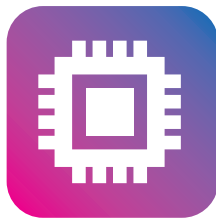
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Company	Page	Lot Volume Buys	Excess Inventory Appraisal at facility
America II Electronics	8	•	•
Cyclops Electronics Ltd	52	•	•
Electro Enterprises Ltd	16	•	•
Jauch Quartz UK Ltd	46	•	•
M-TEK (Assembly) Ltd	33	•	•
Trading Specialists	44	•	•



## Frequency Management

Company	Page	Crystals	Oscillators	Programmable Oscillators	Resonators	VCOs (Voltage Controlled Oscillators)	VCXO	Other
America II Electronics	8	•	•	•	•	•	•	
Anglia Components Ltd	7	•	•	•	•	•	•	
Cyclops Electronics Ltd	52	•	•	•	•	•	•	
Digi-Key Electronics	6	•	•	•	•	•	•	
Jauch Quartz UK Ltd	46	•	•	•			•	
M-TEK (Assembly) Ltd	33	•	•	•	•	•	•	
Mouser Electronics	10	•	•	•	•	•	•	
Rapid Electronics	12	•	•	•	•	•		
RS	9	•	•	•	•	•	•	



## ICs & Semiconductors

Company	Page	Embedded	Interface	Linear	Logic	Memory	PMIC	Other
America II Electronics	8	•	•	•	•	•	•	
Anglia Components Ltd	7	•	•	•	•	•	•	
Cyclops Electronics Ltd	52	•	•	•	•	•	•	
Digi-Key Electronics	6	•	•	•	•	•	•	
M-TEK (Assembly) Ltd	33	•	•	•	•	•	•	•
Mouser Electronics	10	•	•	•	•	•	•	•
Rapid Electronics	12	•	•	•	•	•	•	•
RS	9	•	•	•	•	•	•	•



## Obsolescence Management

Company	Page	Other
America II Electronics	8	•
Cyclops Electronics Ltd	52	•
Electro Enterprises Ltd	16	•
JJS Manufacturing	30	•
M-TEK (Assembly) Ltd	33	•
Mouser Electronics	10	•
Rhopoint Sourcing Ltd	51	•
RS	9	•
Speedboard Assembly Services	25	•



## Passive Components

Company	Page	Capacitors	Ferrite Cores	Filters	Inductors	Resistors	Other
America II Electronics	8	•	•	•	•	•	
Anglia Components Ltd	7	•	•	•	•	•	
Cyclops Electronics Ltd	52	•	•	•	•	•	
Digi-Key Electronics	6	•	•	•	•	•	
G. English Electronics Ltd	61		•	•	•		
Jauch Quartz UK Ltd	46	•	•	•	•	•	
Kemtron Ltd	14		•				
Legacy Distribution	36					•	
M-TEK (Assembly) Ltd	33	•	•	•	•	•	
Mouser Electronics	10	•	•	•	•	•	
Prestwick Circuits GPS Ltd	54	•	•		•	•	
Rapid Electronics	12	•	•	•	•	•	
Rhpoint Components Ltd	51	•				•	
RS	9	•	•	•	•	•	





## PCBs

Company	Page	Design Capabilities	Double Sided	Multi-Layer	Aluminium / Metal Boards	Flex / Flex Rigid	Prototyping	Other
America II Electronics	8	•	•	•	•	•	•	
Digi-Key Electronics	6		•	•	•		•	
DJ Assembly	32	•	•	•	•	•	•	
M-TEK (Assembly) Ltd	33	•	•	•	•	•	•	
Prestwick Circuits GPS Ltd	54	•	•	•	•	•	•	
Rapid Electronics	12		•			•	•	
RS	9	•	•	•	•	•		



## Power & Batteries

Company	Page	AC DC Converters	DC DC Converters	Batteries Non-Rechargeable (Primary)	Batteries Rechargeable (Secondary)	Battery Chargers	Battery Holders, Clips, Contacts	Other
America II Electronics	8	•	•	•	•	•	•	
Anglia Components Ltd	7	•	•	•	•		•	
Digi-Key Electronics	6	•	•	•	•	•	•	
G. English Electronics Ltd	61	•		•	•	•	•	
Jauch Quartz Uk Ltd	58			•	•	•	•	
M-TEK (Assembly) Ltd	33	•	•	•	•	•	•	•
Mouser Electronics	10	•	•					
OLSON Electronics Limited	59	•	•	•	•	•	•	•
Prestwick Circuits GPS Ltd	54			•			•	
Rapid Electronics	12	•	•	•	•	•	•	
RS	9	•	•	•	•	•	•	



## Programming Services

---

Company	Page	Device Programming Services	Laser Marking	Tape and Reeling	Other
America II Electronics	8	•	•	•	
Anglia Components Ltd	7	•	•	•	
M-TEK (Assembly) Ltd	33	•	•	•	
Mouser Electronics	10	•		•	
RS	9	•	•	•	
Trojan Electronics Ltd	31	•			



## Sensors

Company	Page	Linear & Direction	Magnetic	Movement & Acceleration	Pressure	Temperature	Other
America II Electronics	8	•	•	•	•	•	
Anglia Components Ltd	7	•	•	•	•	•	
Digi-Key Electronics	6	•	•	•	•	•	
Mouser Electronics	10	•	•	•	•	•	
PEI-Genesis	18				•	•	
Rapid Electronics	12	•	•	•	•	•	
Rhpoint Components Ltd	42	•	•	•	•	•	
RS	9	•	•	•	•	•	



## Switches & Keyboards

Company	Page	DIP Switches	Push Button Switches	Rocker Switches	Rotary Switches	Slide Switches	Toggle Switches	Other
America II Electronics	8	•	•	•	•	•	•	
Anglia Components Ltd	7	•	•	•	•	•	•	
Cyclops Electronics Ltd	52	•	•	•	•	•	•	
Digi-Key Electronics	6	•	•	•	•	•	•	
Electro Enterprises Ltd	16	•	•	•	•	•	•	
G. English Electronics Ltd	61		•					
M-TEK (Assembly) Ltd	33	•	•	•	•	•	•	
Mouser Electronics	10	•	•	•	•	•	•	
Rapid Electronics	12	•	•	•	•	•	•	
RS	9		•	•	•	•	•	



## Thermal Management

Company	Page	AC Fans	DC Fans	Fan Accessories	Fan Finger Guards, Filters and Sleeves	Heat Sinks	Thermal Pads, Sheets	Other
America II Electronics	8	•	•	•	•	•	•	
Anglia Components Ltd	7	•	•	•	•	•	•	
Digi-Key Electronics	6	•	•	•	•	•	•	
G. English Electronics Ltd	61	•	•	•	•	•	•	
Kemtron Ltd	14						•	
M-TEK (Assembly) Ltd	33	•	•	•	•	•	•	
Mouser Electronics	10	•	•	•	•	•	•	
Rapid Electronics	12	•	•	•	•	•	•	
RS	9	•	•	•	•	•	•	



## Wireless Solutions

Company	Page	Antennas	Modems	Modules	Signal Amplifiers	Other
America II Electronics		•	•	•	•	
Anglia Components Ltd		•	•	•	•	
Digi-Key Electronics		•	•	•	•	
M-TEK (Assembly) Ltd		•	•	•	•	
Mouser Electronics		•	•	•	•	
Rapid Electronics		•	•	•	•	
RS		•		•	•	
Speedboard Assembly Services						•







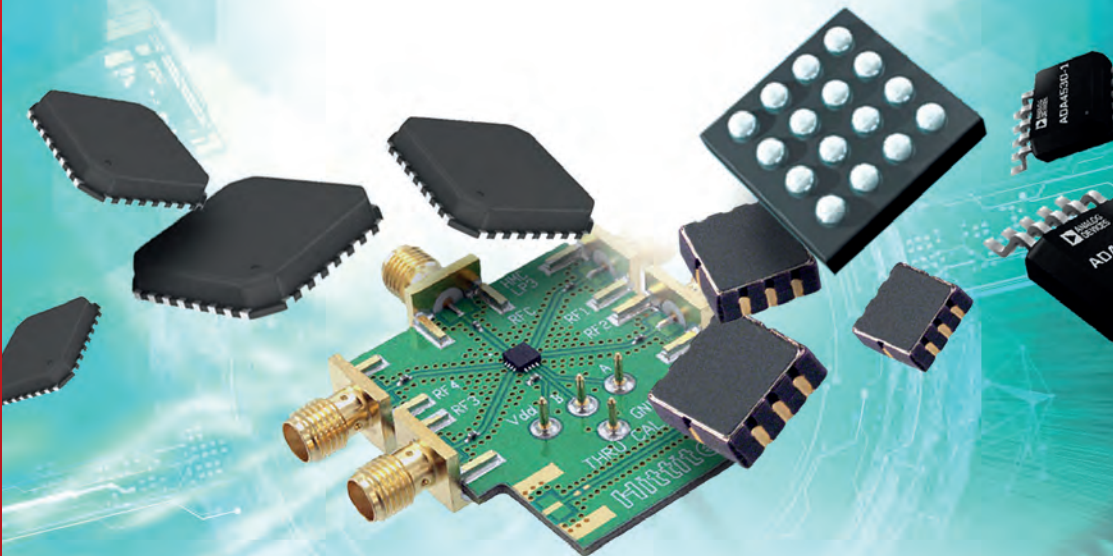






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