MARKET UPDATE

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March 2023

A2 GLOBAL®
electronics + solutions

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YOU CAN RELY ON A2
WHEN *YOU* NEED IT MOST

Whether you're in consumer electronics or a high-reliability environment, your products and business depend on quality electronic components.

In This Edition

Focused Industries


Aerospace + Defense 06


Automotive 07


Automation Solutions 08


Health Care 09


Industrial Machinery 10


Modules 11


Consumer Devices 12

SOLUTIONS + SERVICES

FROM LAST-TIME BUYS TO FULL-SCALE SUPPLY CHAIN SOLUTIONS, CONSIDER US YOUR GO-TO RESOURCE

INVENTORY SOLUTIONS

We will provide a comprehensive assessment of your excess inventory value with expert recommendations on the quickest way to maximize inventory value recovery.

SHORTAGE MITIGATION

Address unexpected electronic component shortages caused by extended lead times, changed forecasts, and other supply chain disruptions.

COST REDUCTION

Lower the cost of components beyond single buys with benchmarking programs, volume buys, and life cycle analysis.

OBSOLESCENCE MANAGEMENT

Source EOL products, facilitate multi-year purchases (MYP), and receive Life Cycle Assessment (LCA) support for the preemptive planning of at-risk components.

GLOBAL SOURCING

Find the components you need — at the right price — from our sourcing and distribution hubs in the Americas, Asia, Japan, and Europe.

Create *Your* **Custom Solutions** for the industry that fits *your* project.

Healthcare

Lighting / LED

Aerospace

Oil & Gas

Defense

Automotive

Industrial

Security

Energy

Telecom

Consumer

Cloud

Embedded

Automation

Aerospace + Defense

This is a growth segment for A2 with demand increasing and a good conversion rate to orders. Top drivers are: **FPGAs, MCUs, Mosfets, and Op Amps**. The fire affecting Vishay Mosfets has had no real impact. There was a slight bump in inquiries, but this did not translate directly into orders. Prices are stable and leadtimes are improving.

FPGAs / CPLDs

Manufacturer	Part / Series	Pricing	Lead Time
AMD / XILINX	Spartan 3, XC3S series	Stable	24-52 weeks or above
	Spartan 6, XC6S series	Stable/High	52 weeks or above
	Artix-7, XC7A series	Stable	44-52 weeks or above

Discrete: MOSFET, Rectifier, TVS Diodes, IGBT

Manufacturer	Part / Series	Pricing	Lead Time
VISHAY	MOSFETs	Stable	50-80 weeks or above
	Rectifiers	Stable	44-80 weeks or above

Analog: OP AMPS, ADCS, Logic Gates & Inverters

Manufacturer	Part / Series	Pricing	Lead Time
TEXAS INSTRUMENTS	Operational Amplifiers (OP AMPs)	Stable	35-46 weeks or above

Microcontrollers (MCU) / Microprocessor (MPU)

Manufacturer	Part / Series	Pricing	Lead Time
MICROCHIP	MCU, 8-bit	Stable	26-52 weeks or above
	MCU, 16-bit	Stable	40-52 weeks or above
	MCU, 32-bit	Stable	35-52 weeks or above

Automotive

Demand is stable but with regional variations. EMEA is still showing strong demand, but it's down in Japan & North America. The top drivers are: **MCUs, Drivers, Receiver & Transceiver Interfaces, and Mosfets**. Lead times are improving (except Vishay). Manufacturers have increased pricing so there are not really any PPV opportunities, but we can help with offering **security of supply**.

Microcontrollers (MCU) / Microprocessor (MPU)

Manufacturer	Part/Series	Pricing	Lead Time
NXP SEMICONDUCTORS	MCU, 16-bit	Increasing	26-52 weeks or above
	MCU, 32-bit	Increasing	45-52 weeks or above
MICROCHIP	MCU, 8-bit	Stable/High	44-52 weeks or above
	MCU, 16-bit	Stable/High	26-52 weeks or above
	MCU, 32-bit	Stable/High	40-52 weeks or above

Discrete: MOSFET

Manufacturer	Part/Series	Pricing	Lead Time
VISHAY	Low Voltage MOSFET	Stable	50-80 weeks or above
INFINEON	Low Voltage MOSFET	Stable	40-65 weeks or above

Interface: Driver, Receiver and Transceiver Interfaces

Manufacturer	Part/Series	Pricing	Lead Time
TEXAS INSTRUMENTS	Power Distribution Switches	Stable	26-35 weeks or above
ANALOG DEVICES	Current Regulator	Increasing	50-80 weeks or above

Automation Solutions

■ MCUs, Mosfets, and Op Amps are the top drivers.

Demand Is Increasing

Lead times remain high with minimum 26 weeks and most still over 50 weeks - however there is more availability in the market. Prices are still elevated but much lower than a few months ago. The fire affecting Vishay Mosfets has had no real impact. There was a slight bump in inquiries, but this did not translate into orders.

Microcontrollers (MCU) / Microprocessor (MPU)

Manufacturer	Part / Series	Pricing	Lead Time
MICROCHIP	MCU, 8-bit	Stable	26-52 weeks or above
	MCU, 16-bit	Stable	40-52 weeks or above
	MCU, 32-bit	Stable	35-52 weeks or above

Analog: OP AMPS, ADCS, Logic Gates & Inverters

Manufacturer	Part / Series	Pricing	Lead Time
TEXAS INSTRUMENTS	OP AMPs	Stable	35-46 weeks or above

Discrete: MOSFET, Rectifier, TVS Diodes, IGBT

Manufacturer	Part/Series	Pricing	Lead Time
ON SEMICONDUCTOR	MOSFETS	Stable/high	40-85 weeks or above
	Rectifiers	Stable/high	32-70 weeks or above
VISHAY	MOSFETS	Stable/high	50-80 weeks or above

Health Care

Overall demand is stable. Top drivers are: FPGAs, MCUs & Op Amps. There is more availability in the market with prices still elevated but much lower than a few months ago and more stable than they have been although lead times remain long.

Analog: OP AMPS, ADCS, Logic Gates & Inverters

Manufacturer	Part / Series	Pricing	Lead Time
TEXAS INSTRUMENTS	Operational Amplifiers (OP AMPs)	Stable	35-46 weeks or above

Microcontrollers (MCU) / Microprocessor (MPU)

Manufacturer	Part / Series	Pricing	Lead Time
NXP SEMICONDUCTORS	MCU, 16-bit	Stable	26-52 weeks or above
	MCU, 32-bit	Stable	45-52 weeks or above

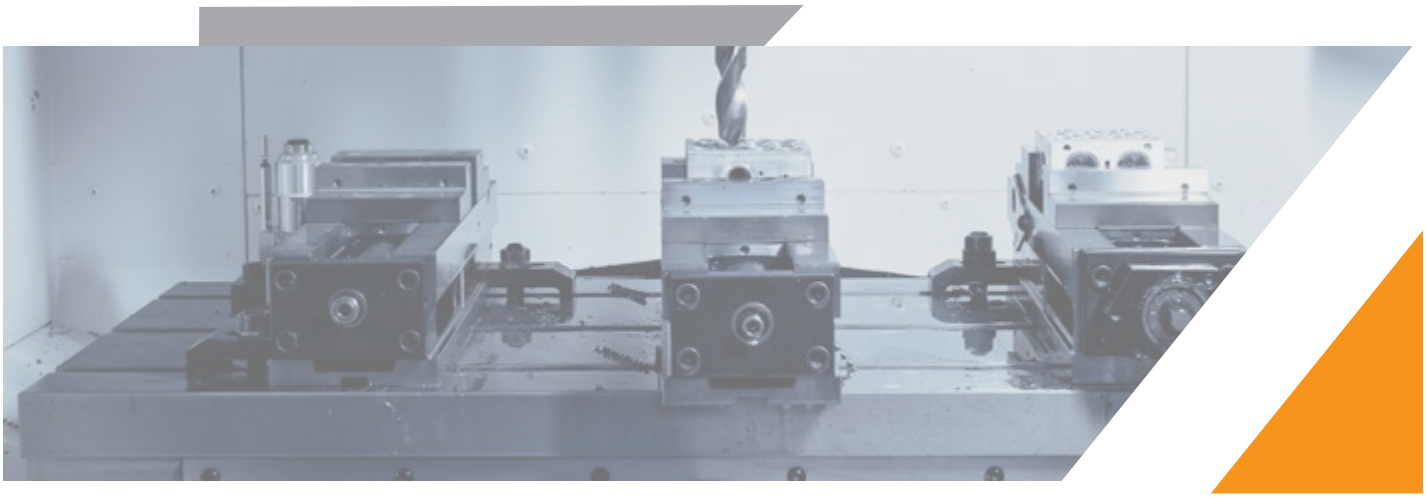
S912 on price increase trend

FPGAs/CPLDs

Manufacturer	Part / Series	Pricing	Lead Time
INTEL / ALTERA	Cyclone 10 LP, 10CLxxx series	Stable/high	46-52 weeks or above
	Cyclone V, 5Cxxx series	Stable/high	30-52 weeks or above
	Cyclone IV, EP4Cxxx series	Stable/high	40-65 weeks or above

Industrial Machinery

Demand remains stable. FPGAs, MCUs & Op Amps are the top drivers. Leadtimes remain high with minimum 26 weeks and most still over 50 weeks - however there is more availability in the market. Prices are still elevated but much lower than a few months ago.



FPGAs / CPLDs

Manufacturer	Part / Series	Pricing	Lead Time
INTEL / ALTERA	Cyclone 10 LP, 10CLxxx series	Stable/high	46-52 weeks or above
	MAX 10, 10Mxxx series	Stable/high	36-47 weeks or above
	Cyclone V, 5Cxxx series	Stable/high	30-52 weeks or above
	Cyclone IV, EP4Cxxx series	Stable/high	40-65 weeks or above
	Cyclone III, EP3Cxxx series	Stable/high	40-52 weeks or above

Analog: OP AMPS, ADCS, Logic Gates & Inverters

Manufacturer	Part / Series	Pricing	Lead Time
ANALOG DEVICES	Operational Amplifiers (OP AMPs)	Stable	50-80 weeks or above

Microcontrollers (MCU) / Microprocessor (MPU)

Manufacturer	Part / Series	Pricing	Lead Time
RINESAS	MCU, 8-bit	Stable	20-32 weeks or above
	MCU, 16-bit	Stable	24-52 weeks or above
	MCU, 32-bit	Stable	30-52 weeks or above

Modules

Demand remains stable. Driver, Receiver & Transceiver Interfaces; MCUs; FPGAs & Mosfets are the top drivers. There is some improvement on leadtimes. The fire affecting Vishay Mosfets has had no real impact. There was a slight bump in inquiries, but this did not translate into orders. This is a very price sensitive segment.
See below for manufacturers to watch out for.

Discrete: MOSFET, Rectifier, TVS Diodes, IGBT

Manufacturer	Part / Series	Pricing	Lead Time
INFINEON	MOSFETs	Stable	40-65 weeks or above

Microcontrollers (MCU) / Microprocessor (MPU)

Manufacturer	Part/Series	Pricing	Lead Time
MICROCHIP	MCU, 8-bit	Stable	26-52 weeks or above
	MCU, 16-bit	Stable	40-52 weeks or above
	MCU, 32-bit	Stable	35-52 weeks or above
NXP SEMICONDUCTORS	MCU, 16-bit	Stable	26-52 weeks or above
	MCU, 32-bit	Stable	45-52 weeks or above
	MCU, Coldfire V2	Increasing	26-52 weeks or above

FPGAs / CPLDs

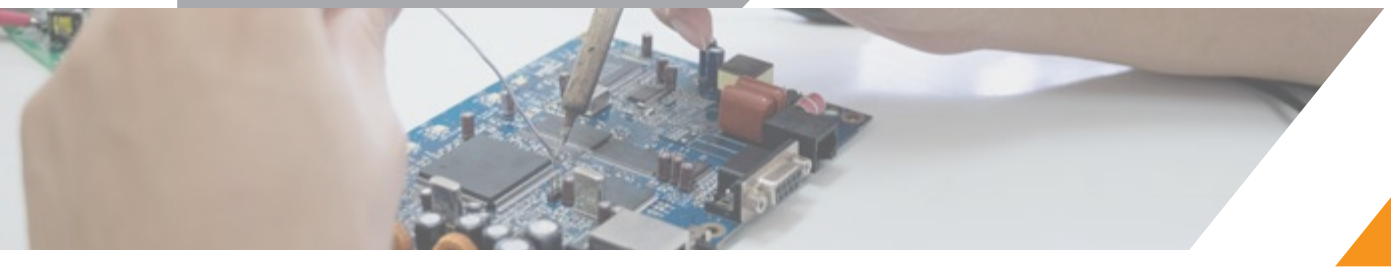
Manufacturer	Part / Series	Pricing	Lead Time
AMD/XILINX	Spartan 3, XC3S series	Stable	24-52 weeks or above
	Spartan 6, XC6S series	Stable/High	52 weeks or above
	Artix-7, XC7A series	Stable	44-52 weeks or above

Interface: Driver, Receiver and Transceiver Interfaces

Manufacturer	Part / Series	Pricing	Lead Time
TEXAS INSTRUMENTS	Driver, Receiver and Transceiver Interfaces	Stable	26-50 weeks or above

Consumer Devices

This is a constant growing segment for A2 with demand increasing and a good conversion rate to orders. Top drivers are: **FPGAs and MCUs**. Prices are stable and leadtimes are improving.



FPGAs / CPLDs

Manufacturer	Part / Series	Pricing	Lead Time
AMD / XILINX	Spartan 6, XC6S series	Stable/High	52 weeks or above
	Artix-7, XC7A series	Stable	44-52 weeks or above
	Kintex UltraScale, XCKU series	Stable/High	35-52 weeks or above

Power Management: DC/DC Switching Regulators, Linear Voltage Reg, Power Distribution Switches

Manufacturer	Part / Series	Pricing	Lead Time
TEXAS INSTRUMENTS	DC/DC Switching Regulators	Stable	35-52 weeks or above

LMxxx/NOPB lead time remains high

Microcontrollers (MCU) / Microprocessor (MPU)

Manufacturer	Part / Series	Pricing	Lead Time
MICROCHIP	MCU, 8-bit	Stable	26-52 weeks or above
	MCU, 16-bit	Stable	40-52 weeks or above
	MCU, 32-bit	Stable	35-52 weeks or above
RENESAS	MCU, 8-bit	Stable	20-32 weeks or above
	MCU, 16-bit	Stable	24-52 weeks or above
	MCU, 32-bit	Stable	30-52 weeks or above

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