



Obsolescence Report

August 2024



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Semiconductor Obsolescence Report

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| Company | Component | Status | Replacement | Reason |
|-----------|-----------------------------------|-------------------|---------------------------------|--|
| AMD | Radeon RX 500 Series GPUs | End of Life | Radeon RX 6000 Series | Shift to newer architecture for better performance and power efficiency. |
| | Ryzen 5 3600 | End of Life (EOL) | Ryzen 5 7600X and newer | Shift to newer architecture for better performance and power efficiency. |
| | Radeon RX 5700 XT | Discontinued | Radeon RX 7800 XT and newer | Focus on newer GPU models with improved performance and features |
| Company | Component | Status | Replacement | Reason |
| Broadcom | Ethernet PHY Chips | End of Life | 25G, 40G, 100G Ethernet PHYs | Migration to higher-speed Ethernet standards. |
| | BCM4339 Wi-Fi Chip | End of Life (EOL) | BCM43684 or newer | Newer chips offer improved connectivity and features |
| | BCM54616 Ethernet PHY | Discontinued | BCM54640 or newer | Replacement by updated PHYs for better performance and energy efficiency |
| Company | Component | Status | Replacement | Reason |
| Infineon | Discrete IGBTs | Discontinued | Integrated Power Modules (IPMs) | Shift towards more integrated and efficient power solutions. |
| | XMC4500 Micro controller | End of Life (EOL) | XMC4700 series | Superseded by newer micro controllers with advanced features |
| | IRF540N MOSFET | Discontinued | IRF540N-01 or newer models | Replacement by updated MOSFETs with improved specs |
| Company | Component | Status | Replacement | Reason |
| Intel | DDR3 Memory Chips | End of Life | DDR4, DDR5 | Transition to faster and more efficient memory technologies. |
| | Core i7-9700K | End of Life (EOL) | Core i7-12700K and newer | Transition to newer generations with improved specs and performance |
| | Xeon E5-2680 v4 | Discontinued | Xeon Scalable (3rd Gen) | Replacement with newer Xeon processors for better performance and features |
| Company | Component | Status | Replacement | Reason |
| Microchip | PIC16F84 | End of Life (EOL) | PIC16F88 or newer | Superseded by newer, more advanced PIC micro controllers |
| | MCP3208 ADC | Discontinued | MCP3204 or newer | Newer ADCs offer better performance and features |
| Company | Component | Status | Replacement | Reason |
| Murata | Ceramic Capacitors (older series) | Discontinued | New High-Frequency MLCCs | Market demand for higher frequency and smaller form-factor components. |



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| NXP Semi-conductors | LPC1768 Micro controller | End of Life (EOL) | LPC177x/8x series | Superseded by newer micro controllers with enhanced capabilities |
| | PN532 NFC Controller | Discontinued | PN7150 or newer | Newer NFC controllers offer improved performance and features |
| | Standard Analogue Integrated Circuits | Discontinued | Custom ICs | Declining demand for traditional analogue circuits in industrial applications. |
| Company | Component | Status | Replacement | Reason |
| ON Semi-conductor | Bipolar Power Transistors | End of Life | RoHS-compliant transistors | Regulatory changes require environmentally compliant designs. |
| | NCP1200 Voltage Regulator | End of Life (EOL) | NCP1200-01 or newer | Replacement by updated voltage regulators with better performance and features |
| | FSA3157 Analogue Switch | Discontinued | FSA3159 or newer | Newer switches offer improved performance and features |
| Company | Component | Status | Replacement | Reason |
| Qualcomm | Snapdragon 400 Series SoCs | End of Life | Snapdragon 600/700 Series | Transition to more advanced 5G and AI-enabled chip sets. |
| Company | Component | Status | Replacement | Reason |
| Renesas | RX62N Micro controller | End of Life (EOL) | RX63N series | Superseded by the newer RX63N series with enhanced features |
| | SH2A Series | Discontinued | SH3 Series or newer | Outdated due to technological advancements |
| | Legacy MCU Families | End of Life | ARM-based MCUs | Industry-wide shift towards 32-bit architectures |
| Company | Component | Status | Replacement | Reason |
| STMicro-electronics | Low-Power Op-Amps | End of Life | Programmable analogue ICs | Adoption of more flexible and programmable analogue solutions. |
| | STM32F1 Series | End of Life (EOL) | STM32F4 and STM32F7 series | Superseded by the more advanced STM32 series with enhanced capabilities |
| | L298N Motor Driver | Discontinued | L298P or newer motor drivers | Replacement due to advances in motor driver technology |



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| TSMC | 7nm Process Node Components | End of Life | 5nm, 3nm | Focus on advanced nodes for AI and high-performance computing. |
| | 7nm Process Node | End of Life (EOL) | 5nm and 3nm process nodes | Transition to more advanced technology for better performance and efficiency |
| | 12nm Process Node | Discontinued | 7nm and 5nm process nodes | Phased out in favour of newer process technologies |
| Company | Component | Status | Replacement | Reason |
| Vishay | Low-Power Resistors | End of Life | High-Power, Precision Resistors | Industry demand for more accurate and power-efficient components. |
| | 1N4148 Diode | End of Life (EOL) | Newer Schottky diodes | Phased out due to shift to higher efficiency diodes |
| | IRF540N MOSFET | Discontinued | IRF540N-01 or newer models | Replacement by updated MOSFETs with improved specs |
| Company | Component | Status | Replacement | Reason |
| Xilinx | Spartan-6 FPGAs | Discontinued | Zynq-7000 SoCs | Migration to higher-performance, integrated solutions with ARM cores. |



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Market Trends and Challenges

Market Trends

Continued Growth in AI and ML: The demand for advanced semiconductors continues to rise due to the expansion of artificial intelligence (AI) and machine learning (ML) applications. This has driven innovations in chip design and manufacturing.

Expansion of 5G and IoT: The roll-out of 5G networks and the growth of the Internet of Things (IoT) are fuelling demand for high-performance and specialized semiconductor components.

Increased Investment in R&D: Companies are ramping up investment in research and development to create more advanced, energy-efficient, and higher-performing semiconductors.

Supply Chain Diversification: In response to past supply chain disruptions, companies are diversifying their supply chains and considering new manufacturing locations.

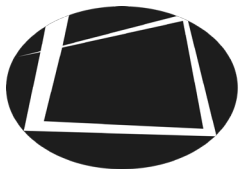
Challenges

Supply Chain Disruptions: The industry continues to face challenges related to supply chain stability and the availability of raw materials, exacerbated by geopolitical tensions and trade restrictions.

Technological Complexity: As semiconductor technology advances, the complexity of design and manufacturing processes increases, leading to higher costs and longer development times.

Regulatory and Trade Issues: Ongoing regulatory and trade issues, particularly between major markets like the US and China, are affecting the industry's global operations and market dynamics.

Environmental Impact: Growing concerns over the environmental impact of semiconductor manufacturing are prompting the industry to seek more sustainable practices and technologies.



ROM Support Rebound Obsolescence Management Support)

Welcome to Rebound Electronics
Obsolescence support program.

Obsolescence affects all
manufactures of long-life cycle
products. To help mitigate the risk
to our clients we have put together
a 5 point proactive and reactive
approach to a significant issue in
today's market

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maintaining production, or supporting
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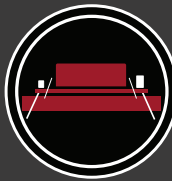
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