



Your Supply Chain Bulletin

January 2023



Electronic Component Market Review

Global economic uncertainty is driving downward pressure on consumer confidence and on the overall economic environment. Customer demand signals continue to get re-aligned on a global level bringing lead times on most products down to levels unseen in well over 2 years.

Constraint points are still present as allocation continues to be a challenge and average selling prices are expected to rise in some markets due to shipping and material cost increases.

Although consumer electronics is sluggish, the market demand for automotive-grade IGBTs is still higher than expected, driven by the demand for new energy vehicles and new energy power generation, and power devices represented by IGBTs are growing strongly. The lead time of many large foreign manufacturers is also maintained at about 50 weeks, while the orders of related domestic IGBT companies continue to be full, and the production capacity is in short supply. ON Semiconductor stated as early as May that the order for automotive IGBTs is full and will no longer accept orders, and the production capacity in 2022-2023 has been sold out.

Capacity and lead-time issues

- IGBT challenges continue with Infineon reporting lead-times of 39-50 weeks, Microsemi 42-52 weeks and ST Micro at 42-52 weeks.
- NXP is reporting a shortage of raw materials that is continuing to affect lead-times. The FS32 MCU will be the next series with shortage of materials.
- Infineon SAK series is highly allocation-constrained and lead-times for MB9 and OptiMOS power MOSFET families is also facing tight supply.

- OnSemi may be discontinuing the NC&XXX series which will worsen an already strained shortage situation.
- The Xilinx XC6 series is still facing delivery uncertainty and Xilinx announced a price increase of 25% for this series.
- Nexperia has marked SOT223, SOD323, SOD523, SOT353, SOT363 and SOT 457 on allocation.
- The passive market is seeing higher inventory levels and lower lead-times for over 2 years. Although there are still pockets of constraints across multiple commodities.
- LiteON is seeing lead-time increases due to raw material shortages caused by excessive demand for automotive LEDs.

Pricing Uncertainty

- Renesas will increase product prices starting on January 1st, 2023. Most will be approximately 10% to 15% on both new orders and order in transit.
- Analog Devices has decreased the pricing of ADUMXXX and LTCXXX series due to over-inventory situations.
- AVC/Kyocera MLCC lead-times are still higher than normal but with price decreases averaging 12%.



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