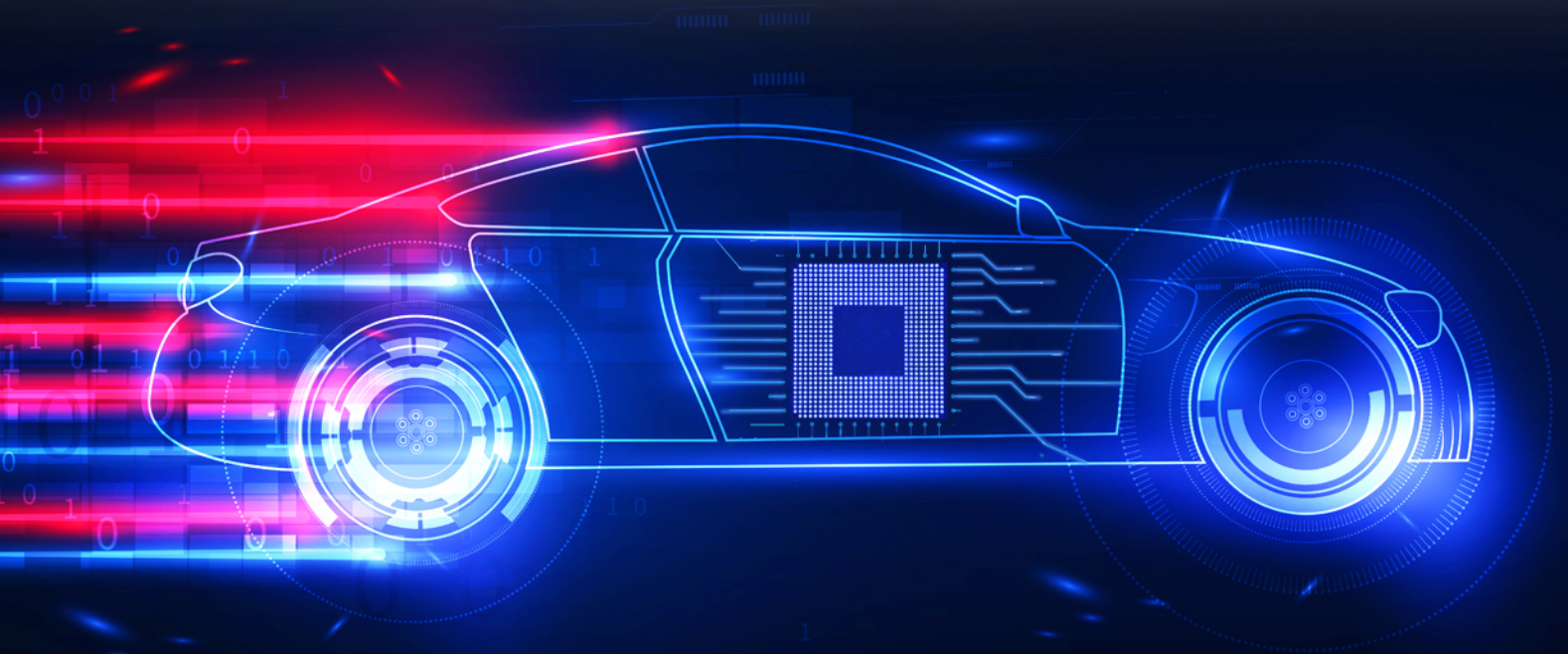


PCB Sustainance Factory by QuEST Global



Overcoming the PCB Crisis

It is estimated that chip shortage will cost automakers close to \$110bn in revenues in 2021, directly hampering the production of 3.9 million vehicles*. This has created an urgent need for automakers to quickly find an alternate while the supply chain bounces back to normalcy.

QuEST Global: Your Transformation Partner

Has the Covid-19 pandemic brought out a premature midlife crisis for your PCBA? The unprecedented supply chain/logistics challenge posed by the pandemic may result in a **“Silicon Delay” (Digital, Analog, Mixed and Discrete)**, premature or forced EOL for components and higher procurement cost leading to loss of revenue and market share for your products.

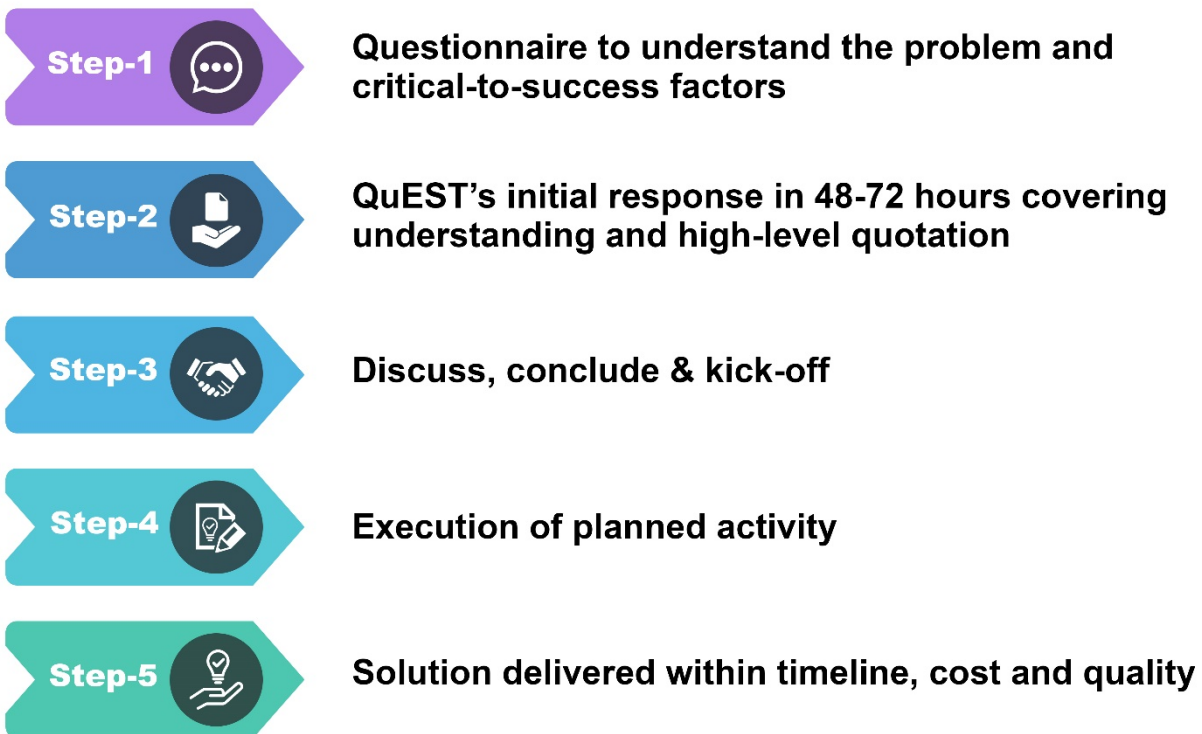
For addressing this, we need to look at some tactical measures to overcome the challenge temporarily, coupled with a strategic shift in some key areas. These will include part replacement in short term or redesigning with alternative parts and then having a different “critical-to-success” factor. Typically for temporary part replacement, the focus will be limited to redesign to reduce the timeline with relatively lower priority for cost. Alternately, in the case of redesign, the focus will be to lower overall cost and further extend the life of the product. In either of these cases, faster TAT and functional coverage will be critical. Additionally, we are also seeing delays due to over stretching of fab and assembly houses.

This has called for temporarily adding another EMS partner in specific regions or de-risking by involving another long term EMS partner. This will mean additional EMS partner support and initial hand holding during ramp-up and factory test.

Need of the Hour: Re-design modules with a sustainable supply

With our focus on “Obsolescence Management” and experience in re-engineering, QuEST has been helping customers in swiftly addressing this unique situation in a very cost-effective way with faster turn-around time by leveraging our “**PCBA Midlife Crisis - Speciality Clinic**”. Through this clinic we provide a “**Single Window Operation**” to address your challenges in a cost optimized way with a major focus on quality and timeline. Apart from the PCBA refresh, with our breadth of expertise, we can also address downstream requirements that arise due this refresh viz., firmware/software repurposing, end to end validation and verification and certification, making this a truly one stop clinic.

For faster turn around and reduced complexity, we have a pre-defined process to engage with you once you reach out to us.



In Step 2, we will also identify the adjacent support requirements w.r.t firmware, validation & re-certification and these will be addressed with separate or integrated proposals as per your convenience. Apart from this, by leveraging our consulting practice, our experts will be available to support you for any of the initial study, rapid prototyping and/or quick PoC.

With QuEST's experts-led transparent governance model, periodic reporting, risk management plan and established change management process, your product refresh will be safe hands.

If you would like to learn more about how QuEST can help you in this critical hour,
please don't hesitate to contact us



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For more than 20 years, QuEST Global has aimed to be a trusted global product engineering and lifecycle services partner to many of the world's most recognized companies in the Aero Engines, Hi-Tech, Aerospace & Defense, Transportation (Auto and Rail), Power and Industrial, Oil & Gas and Medical Devices industries. With a global presence in 14 countries, 72 global centers and 11,800+ personnel, QuEST Global believes that it is at the forefront of the convergence of the mechanical, electronics, software and digital engineering innovations to engineer solutions for a safer, cleaner world. QuEST Global's deep domain knowledge and digital expertise aim to help its clients accelerate product development and innovation cycles, create alternate revenue streams, enhance consumer experience and make manufacturing processes and operations more efficient.

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