



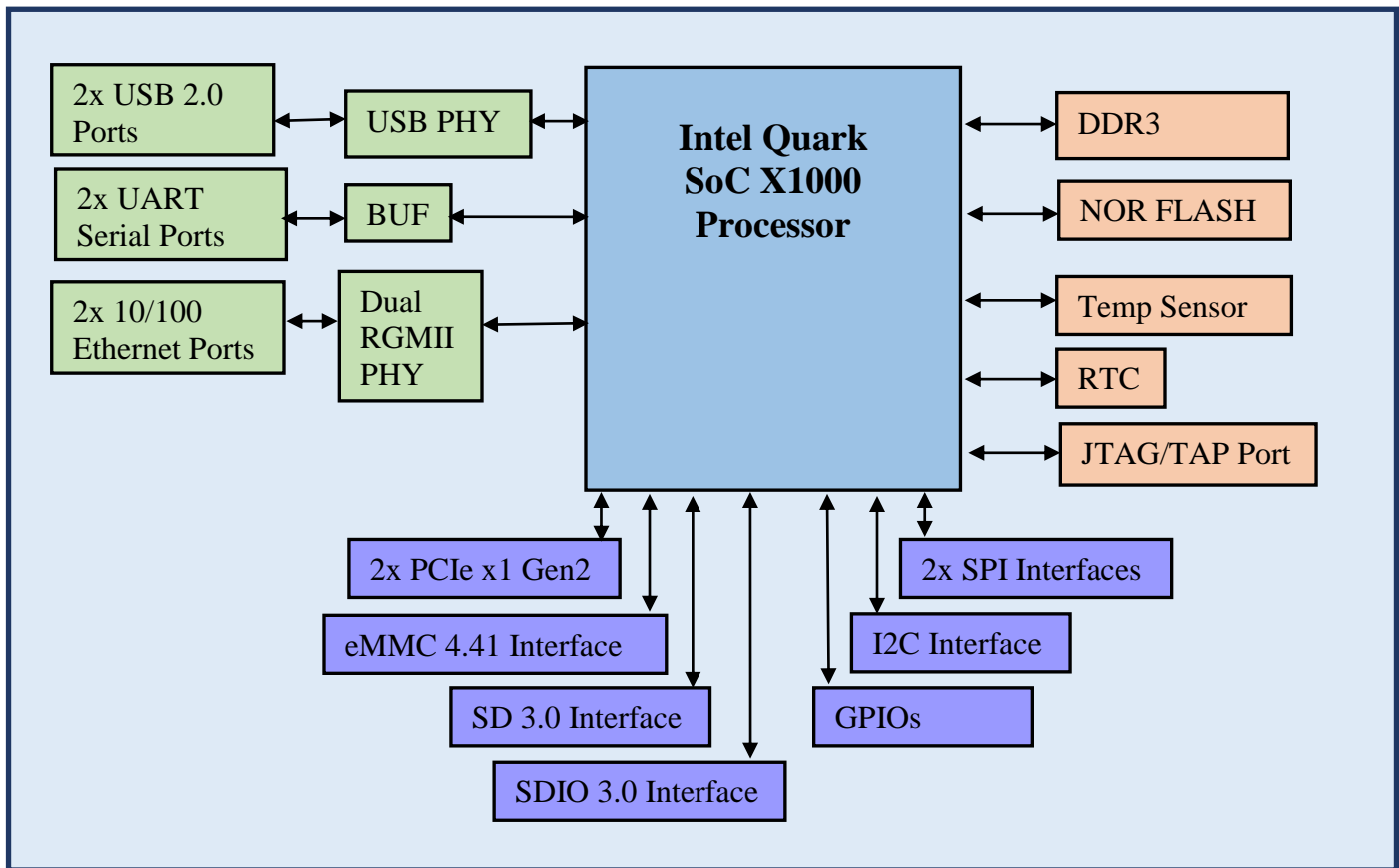
# Intel Galileo Processor Board Reference Design

## Product Brief

Introduction	Applications
<p>The Intel Galileo Processor Board Reference design is a highly flexible board design that can be used in many different types of applications. The Board is designed for applications where lower power and size are a priority.</p>	<ul style="list-style-type: none"> <li>• Lower Power Applications               <ul style="list-style-type: none"> <li>○ Ultra-Mobile Devices, Tablets, Phones &amp; Wearable's</li> <li>○ Automotive</li> <li>○ Industrial</li> </ul> </li> </ul>
Features	
<p>This board reference design is based on the Quark SoC X1000 processor and comes with many different interfaces which can be configured from the list below. This platform may be modified to fit your needs.</p> <ul style="list-style-type: none"> <li>• Intel Quark SoC X1000 processor, x86-based, 400MHz, low power designed for embedded applications.</li> <li>• Secure Applications using an on-die Boot ROM to establish Root of Trust (RoT)</li> <li>• Low Platform Costs, all clocks generated from single Oscillator, all voltage levels derived from single regulator.</li> <li>• ECC-protected DRAM using standard x8 DDR3 devices.</li> <li>• Built in 512 KB SRAM</li> <li>• Legacy Bridge for implanting an Intel Architecture (IA) compatible platform.</li> <li>• ACPI 3.0 Power Management</li> <li>• High Speed Interfaces supporting various Multiplexing Options:               <ul style="list-style-type: none"> <li>○ 10/100 Mbps Ethernet controller, IEEE 1588.</li> <li>○ 2x PCIe x1 Gen 2.0 Root Ports</li> </ul> </li> <li>• Dual High-Speed USB controller (USB 2.0)</li> <li>• SD/SDIO/eMMC Controller</li> <li>• I<sup>2</sup>C Master Controller</li> <li>• GPIO</li> <li>• High Speed UART Controller</li> <li>• SPI Master Controller</li> </ul>	
Software Support	Benefits
<ul style="list-style-type: none"> <li>• Intel x86 Software ecosystem</li> <li>• Windows, MAC and Linux Drivers</li> <li>• Arduino</li> <li>• OpenOCD Tools</li> </ul>	<ul style="list-style-type: none"> <li>• Highly customizable design</li> <li>• Reduced time-to-market by leveraging existing Schematics and Design Documentation</li> <li>• Feature rich platform</li> </ul>


## Block Diagram

The block diagram below shows a typical setup which can be customized to meet your design needs.



## Service and Support

Innovaide's highly experienced team will ensure that your board design meets all of your requirements. We can take your requirements from Specification to Schematics and finally board bring-up and MFG release. Our Software Team can provide you the Diagnostic Support and both the High & Low Level Driver support. Send us a RFQ to [sales@innovaide.com](mailto:sales@innovaide.com).

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