









# T.Board TGL

High Performance 3.5" Single Board Computer based on Intel® Tiger LAKE™ series.



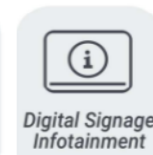
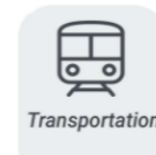
## FEATURES




 <b>CPU</b>	<ul style="list-style-type: none"> <li>Intel Core i7-1185G7E Processor Quad Core up to 2.8 GHz, up to 28W</li> <li>Intel Core i5-1145G7E Processor Quad Core up to 2.6 GHz, up to 28W</li> <li>Intel Core i3-1115G4E Processor Dual Core up to 3.0 GHz, up to 28W</li> <li>Intel Celeron® Processor 6305E Dual Core up to 1.8 GHz, up to 15W</li> <li>Intel Core i7-1185GRE Processor Quad Core up to 2.8 GHz, up to 28W</li> <li>Intel Core i5-1145GRE Processor Quad Core up to 2.6 GHz, up to 28W</li> <li>Intel Core i3-1115GRE Processor Dual Core up to 3.0 GHz, up to 28W</li> </ul>
 <b>CORES</b>	Up to 4
 <b>MEMORY</b>	1 x SODIMM up to 32GB DDR4
 <b>GRAPHICS</b>	<ul style="list-style-type: none"> <li>Integrated Iris Xe Graphics Core Gen12 architecture, with up to 96 execution Units</li> <li>DirectX 12.1, OpenGL 4.6, OpenCL 2.0</li> </ul>
 <b>VIDEO INTERFACES</b>	<ul style="list-style-type: none"> <li>HDMI up to 4K @ 60Hz</li> <li>Optional eDP up to 4K @ 60Hz</li> <li>LVDS Single Channel up to Full HD @ 60Hz via ePD bridge</li> </ul>
 <b>VIDEO PROCESSING</b>	<ul style="list-style-type: none"> <li>HEVC/H.265, VP9, AV1 HW decoding, up to 8k @60.</li> <li>AVC/H.264, HEVC/H.265, JPEG, VP9 HW encoding</li> <li>MPEG2, WMV9, AVC/H.264, JPEG/MJPEG</li> </ul>
 <b>AUDIO</b>	Build-in HD with CS4207-CNZ Logic (MIC, HP & Line)
 <b>NETWORKING</b>	<ul style="list-style-type: none"> <li>2 x Gb Ethernet interfaces</li> <li>WLAN/BT M.2 key E</li> <li>WWAN M.2 Key B with SIM slot</li> </ul>

## HIGHLIGHTS

- **CPU** Intel TIGER LAKE processor series
- **CONNECTIVITY** 2x GbE, WiFi/BT, WWAN with SIM, RS232, RS485
- **GRAPHICS** Intel 12° generation (Gen12) with up to 96 Execution Units MPEG2, WMV9, AVC/H.264, JPEG/MJPEG
- **MEMORY** SODIMM module up to 32GB DDR4

## APPLICATIONS



 <b>USB</b>	<ul style="list-style-type: none"> <li>4 x USB HOST 3.2</li> <li>1 x internal USB HOST 2.0</li> </ul>
 <b>MASS STORAGE</b>	<ul style="list-style-type: none"> <li>2x SATA slot</li> <li>1x SSD M.2 Key M slot</li> <li>1x SSD M.2 Key B slot</li> </ul>
 <b>PERIPHERAL INTERFACES</b>	<ul style="list-style-type: none"> <li>1 x I2C (1xSM BUS) – 1 x JTAG</li> <li>2 x RS232(1 x Debug/Console)</li> <li>1 x Port RS232 or RS485 programmable via Bios</li> <li>12 x GPIOs</li> </ul>
 <b>MINI SLOT</b>	<ul style="list-style-type: none"> <li>1 x M.2 Key E</li> <li>1 x M.2 Key M</li> <li>1 x M.2 Key B</li> </ul>
 <b>OPERATING SYSTEM</b>	<ul style="list-style-type: none"> <li>Linux</li> <li>Windows</li> </ul>
 <b>OPERATING TEMPERATURE*</b>	Industrial (-40°C to 110°C Tj*)
 <b>DIMENSIONS</b>	147 x 102 mm

\* Valid for all components except CPU. Customer shall consider junction temperature for CPU. Temperature will widely depend on application. Specific cooling solutions could be necessary for the final system.

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## CABLE MAP

