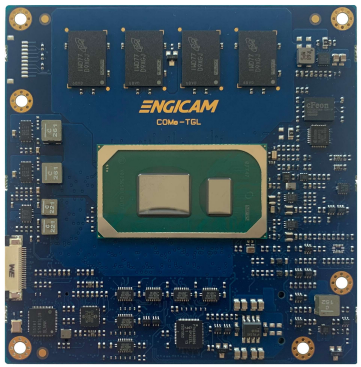
ENGICAM EMBEDDED SOLUTIONS

COM Express®

COMe 6C- TGl

A new Engicam COMe module, based on Intel® TIGER LAKE™ processors with the new Intel® Iris® Xe graphics. The platform offers up to 2.95 times higher graphics performance and the module combines a high-performance CPU, single-thread performance up to 23% and multi-thread up to 19% faster compared to the previous generation processors.



HIGHLIGHTS

- Standard COM Express® Compact type 6
- Powerful Graphics platform
- Ethernet Interface up to 2.5 Gb
- PCI Express 4.0
- HDMI 2.0 Up to 4Kx2K 48-60Hz
- DP Up to 5120x3200 @60Hz

APPLICATIONS

Industrial | Digital Signage Infotainment | Transportation | Automotive | Avionics | Surveillance | Robotics | Biomedical/ Medical devices | Home Automation

FEATURES

Windows 10

CPU	• Intel Core i7-1185G7E Processor Quad Core up to 2.8 GHz, up to 28W • Intel Core i5-1145G7E Processor Quad Core up to 2.6 GHz, up to 28W • Intel Core 13-1115G4E Processor Dual Core up to 3.0 GHz, up to 28W • Intel Celeron® Processor 6305E Dual Core up to 1.8 GHz, up to 15W • Intel Core i7-1185GRE Processor Quad Core up to 2.8 GHz, up to 28W • Intel Core i5-1145GRE Processor Quad Core up to 2.6 GHz, up to 28W • Intel Core 13-1115GRE Processor Dual Core up to 3.0 GHz, up to 28W
CORES	Up to 4
MEMORY	From 4GB to 32 GB LPDDR4 – 4266MT/s
GRAPHICS	Integrated Iris Xe Graphics Core Gen12 architecture, with up to 96 Execution Units MPEG2, WMV9, AVC/H.264, JPEG/MJPEG
VIDEO INTERFACES	• 3x HDMI/DP • eDP/LVDS
VIDEO PROCESSING	• HEVC/H.265, VP9, AV1 HW decoding, up to 8k @60. • AVC/H.264, HEVC/H.265, JPEG, VP9 HW encoding
AUDIO	HDA Interface
NETWORKING	Ethernet interface up to 2.5 Gb
MASS STORAGE	• 2x SATA
USB	• 4 x USB HOST 3.1 • 8 x USB HOST 2.0
PCIE	• 4x PCIe 4.0 • 8x PCIe 3.0
PERIPHERAL INTERFACES	UART, SM Bus, I²C, LPC/eSPI, SPI, GPIOs
POWER SUPPLY	+12V DC (optional 5VSBY)
OPERATING SYSTEM	• Ubuntu • Windows 10
OPERATING TEMPERATURE*	Industrial (-40°C to 110°C Tj*)
DIMENSIONS	95 x 95 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.

Alcom electronics
Singel 3 | B-2550 Kontich | Belgium | Tel. +32 (0)3 458 30 33
info@alcom.be | www.alcom.be
Rivium 1e straat 52 | 2909 LE Capelle aan den IJssel | The Netherlands
Tel. +31 (0)10 288 25 00 | info@alcom.nl | www.alcom.nl

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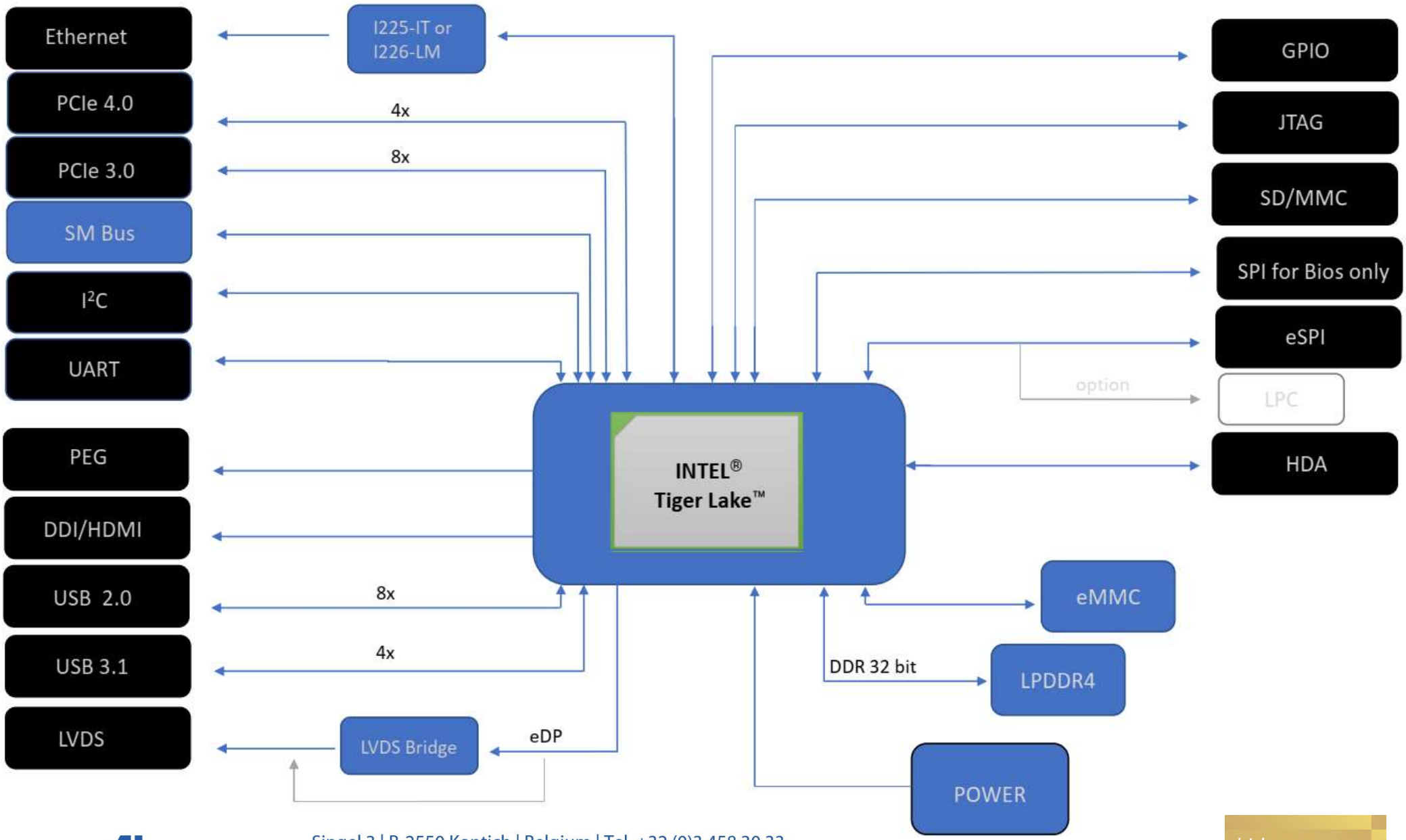
BLOCK DIAGRAM



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