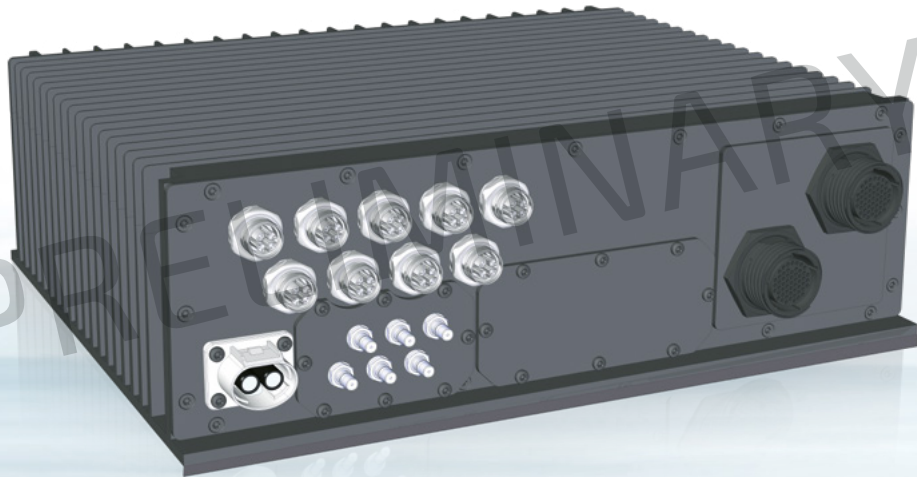


EvoTRAC-S1901 PLATFORM



Application Ready Platform for Autonomous Vehicle Systems

- ▶ Ruggedized & modular platform for in-vehicle deployment with built-in AI
- ▶ COM Express® Intel® High Performance computer-on-module technology
- ▶ Expansion slots for multiple GPUs, FPGA accelerators, or video modules
- ▶ Multiple I/O high speed interfaces and high capacity storage options
- ▶ Wireless connectivity options for cellular and Wi-Fi

POSSIBILITIES START HERE



► TECHNICAL INFORMATION

	BASIC	INTERMEDIATE	ADVANCED
CPU	Intel® Xeon® E-2254M, 4 cores	Intel® Xeon® E-2276ML, 6 cores	Intel® Xeon® D-1539, 8 cores
OPTIONAL CPU	Broadwell DE (Intel® Xeon®) D-1559, 12/24 C/T, 1.5/2.1 GHz, 45 W D-1539, 8/16 C/T, 1.6/2.2 GHz, 35 W D-1519, 4/8 C/T, 1.5/2.1 GHz, 25 W	Broadwell DE (Intel® Xeon®) D-1559, 12/24 C/T, 1.5/2.1 GHz, 45 W D-1539, 8/16 C/T, 1.6/2.2 GHz, 35 W D-1519, 4/8 C/T, 1.5/2.1 GHz, 25 W Coffee Lake (Intel® Xeon®, core) E-2276ML, 6/12 C/T, 2.0/4.2 GHz, 25 W E-2254ML, 4/8 C/T, 1.7/3.5 GHz, 25 W i7-9850HL, 6/12 C/T, 1.9/4.1 GHz, 25 W, no ECC i3-8100H, 4/4 C/T, 2.6/3.0 GHz, 45 W i3-9100HL, 4/4 C/T, 1.6/2.9 GHz, 25 W	Coffee Lake (Intel® Xeon®, core) E-2276ML, 6/12 C/T, 2.0/4.2 GHz, 25 W E-2254ML, 4/8 C/T, 1.7/3.5 GHz, 25 W i7-9850HL, 6/12 C/T, 1.9/4.1 GHz, 25 W, no ECC i3-8100H, 4/4 C/T, 2.6/3.0 GHz, 45 W i3-9100HL, 4/4 C/T, 1.6/2.9 GHz, 25 W
POWER	9-36 Vdc 150 W Optional: 9-36 Vdc 250 W, 18-36 Vdc 500 W	9-36 Vdc 150 W Optional: 9-36 Vdc 250 W, 18-36 Vdc 500 W	9-36 Vdc 150 W Optional: 9-36 Vdc 250 W, 18-36 Vdc 500 W
COOLING*	Fanless Optional: Fan cooled or water cooled	Fanless Optional: Fan cooled or water cooled	Fanless Optional: Fan cooled or water cooled
TEMPERATURE	-30 °C to +55 °C Extended temperature*: -40 °C + 71 °C	-30 °C to +55 °C Extended temperature*: -40 °C + 71 °C	-30 °C to +55 °C Extended temperature*: -40 °C + 71 °C
INGRESS PROTECTION	IP67	IP67	IP67
ETHERNET PORTS	1x 10/100/1000 Mbit/s	6x 10/100/1000 Mbit/s including 4x POE ports PTP/1588 with 1PPS, GPS	7x 10/100/1000 Mbit/s including 4x POE ports 1x 1000/2500 Mbit/s 1x 10 GbE PTP/1588 with 1PPS, GPS
STORAGE	1x internal 2.5" disk, Option: 2x removable 2.5" disks** 1x M.2 2230/2280/22110-M	1x internal 2.5" disk, Option: 2x removable 2.5" disks** 2x M.2 2230/2280/22110-M	1x internal 2.5" disk, Option: 2x removable 2.5" disks** 2x M.2 2230/2280/22110-M
EXPANSION	1x M.2 3042-B 1x mPCIe full length	1x M.2 3042-B 2x mPCIe full length	1x M.2 3042-B 2x mPCIe full length
MXM GPU***	1x MXM port (Type A & B) P1000, 1.5 Tflops, 40 W P3000, 3.9 Tflops, 75 W RTX3000, 6.4 Tflops, 75 W	2x MXM port (Type A & B) P1000, 1.5 Tflops, 40 W P3000, 3.9 Tflops, 75 W P5000, 6.4 Tflops, 100 W RTX3000, 6.4 Tflops, 75 W RTX5000, 10.9 Tflops, 100 W	2x MXM port (Type A & B) P1000, 1.5 Tflops, 40 W P3000, 3.9 Tflops, 75 W P5000, 6.4 Tflops, 100 W RTX3000, 6.4 Tflops, 75 W RTX5000, 10.9 Tflops, 100 W
USB	1x USB (3.0) 1x USB (2.0)	1x USB (3.0) 1x USB (2.0)	1x USB (3.0) 3x USB (2.0)
SERIAL	2x RS232 2x RS485 or RS232	4x RS232 2x RS485 or RS232 2x CAN-FD	4x RS232 2x RS485 or RS232 2x RS485/422 4x CAN-FD
VIDEO & AUDIO****	HDMI	HDMI	HDMI
DISCRETES	4x Digital Input 4x Digital Output	6x digital Input 6x digital Output	12x digital Input 12x digital Output
OPERATING SYSTEM	Linux Ubuntu 18.04 LTS, 64-Bit (installed)	Linux Ubuntu 18.04 LTS, 64-Bit (installed)	Linux Ubuntu 18.04 LTS, 64-Bit (installed)
MCU INFINEON			Option: Safety MCU

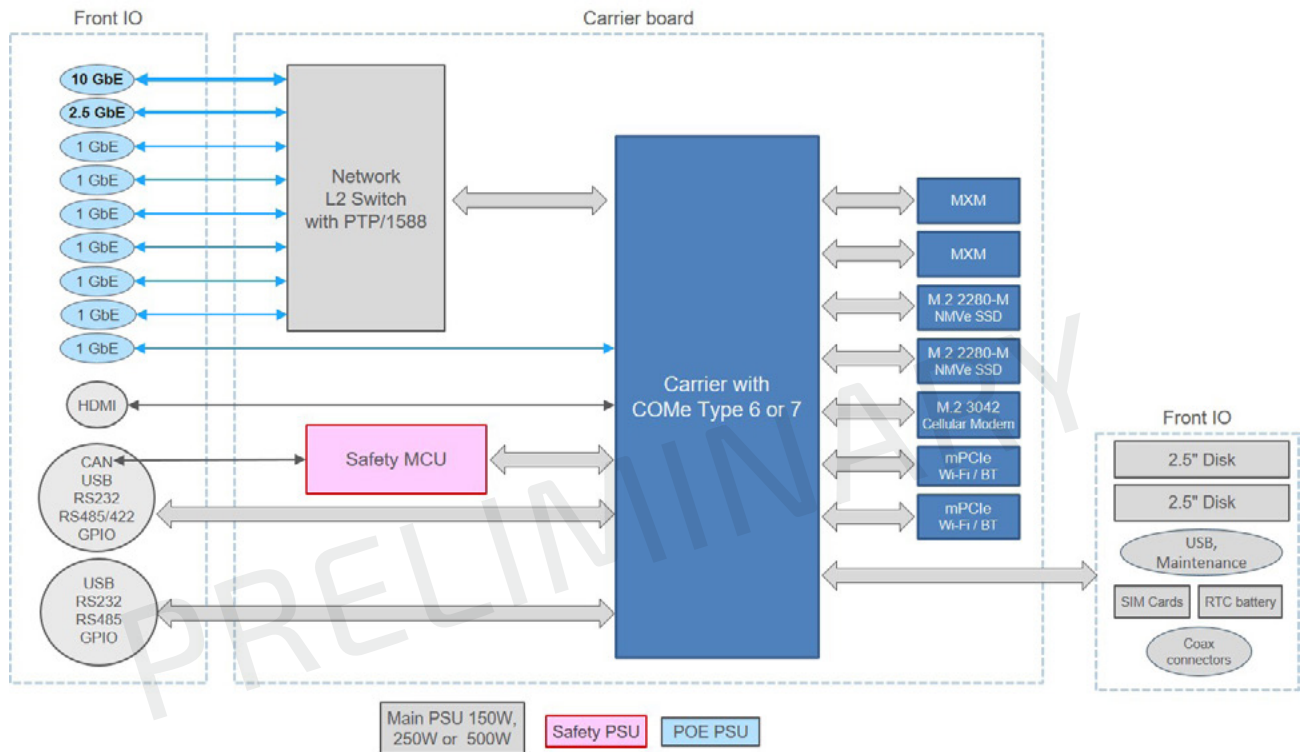
* Depending on processor and payload configuration

** The two removable 2.5" disks replace the single internal 2.5" disk

*** Two MXM can be connected Quantity limited by cooling method used

**** From COMe type 6 or from a MXM card

► BLOCK DIAGRAM



► GLOBAL HEADQUARTERS

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