

#### Vehicle Computer

## **COMPACT VSL Vehicle Series**

Embedded In-Vehicle Computer with Intel® Atom™ Elkhart Lake processor (x6000 Series)



# IPC/COMPACT82 - VSL

This fanless RSL COMPACT82 generation is based on the Intel<sup>®</sup> Atom™ Elkhart Lake (EHL) processor technology, using the new 10nm "Tremont" architecture, it offers a wide range of interface options.

The robust and uncompromising industrial design allows the implementation in the most demanding applications and guarantees long term availability.

- Multi-core Intel® Atom™ processor
- Shock and vibration resistant
- Wide Temp. -40...+85°C on component level
- Made for 24/7 continuous operation







## **Product Highlights**

Maintenance free & long term availability Power Ignition controller Hardware Watchdog Trusted platform module (TPM 2.0) UEFI Secure Boot Temperature supervision Persistent Flash BIOS Fanless, no moving parts

#### **Product Features**

Intel® Atom™ Elkhart Lake, up to 4 cores up to 16GB LPDDR4 RAM LTE-4G, GNSS and WiFi6 connectivity CFast socket microSD socket 1GBit Ethernet and USB 3.1 CAN-FD and Serial Ports Modular product design wide range of expansion options

#### **Industries / Applications**

Automotive
Transportation
Automated Guided Vehicles (AGV)
Special purpose vehicles
Agriculture
Industrial trucks

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Your partner for reliable embedded computer



		Order Code	IPC/VSL82J19-A153E <sup>1</sup>
Processor / Performance			
ntel® Atom™ x6425RE - Quad core 1.9GHz clock   16GB RAM			•
ntel® Atom™ x6414RE - Quad core 1.5GHz clock   4GB RAM			on request
Memory / Storage			
.2 cache			1.5MB
1267MT/s LPDDR4x RAM soldered on board			16GB
nternal eMMC			32GB
CFast socket with latching retainer <sup>2</sup>			1
MicroSD Card socket <sup>2</sup>			1
Features Features			
Real time clock (RTC) with battery backup			CR2477N
Hardware Watchdog & Temperature supervisor			•
ntelligent power management (Ignition controller)			•
TPM 2.0 according to ISO/IEC11889			•
JEFI Secure Boot key material must be provided by customer			•
nertial measurement unit STMicroelectronics ISM330DHCXTR			•
Communication Interfaces			
DisplayPort 1.4 (4096 x 2160 @ 60Hz)			1
JSB version 3.1	(Type A)		2
Ethernet 10/100/1000 BASE-T (1x Intel® GbE   1x Intel® I210-IT)	(M12 female x-coded)		2
CAN 2.0A/B & CAN FD (PEAK FPGA chip, SJA1000 compatible) active/passive, isolated	(DSUB9)		2
M.2 Key B socket 2 - used for LTE-4G extensions	(3042)		
M.2 Key E socket <sup>2 - used for WiFi extensions</sup>	(2230)		
Mini PCIe socket <sup>2</sup>			1
Buzzer			•
Nireless connectivity			
4G LTE Cat-13 (3G fallback) Sierra Wireless EM7590 - M2M only!	(2x SMA)		•
Dual nano SIM slot for cellular modules for 4G module			•
GNSS module u-blox NEO-M9V Module	(1x SMA)		•
High precision GNSS module (with IMU, RTK) u-blox ZED-F9P/R	(1x sMA) <sup>3</sup>		on request
Nireless LAN (Wi-Fi 6) 802.11ac/a/b/g/n/ax Intel, Bluetooth 5.2 Module Intel Wireless- AX210	(2x RP-SMA)		•
Fechnical Data			
Exterior Dimensions [mm] (housing incl. mounting plate)			w228 x h53 x d127
Net weight [gram]			~1750
Non-isolated input voltage, with ignition controller function, reverse polarity protected	(M12 4P male a-coded)		8.4 45VDC
Power consumption typ. in Watt @ 24V without Add-Ins, idle	,		~17
Environmental Conditions			
Operating temperature <sup>4</sup>			-40°C +70°C
Non operating temperature (Recommended storage temperature 20°C 25°C)			-40°C +85°C
ngress protection standard according to EN60529			IP40
Conformal coating <sup>5</sup>			on request
JNECE-R10 certified (E-mark)			on request
Shock EN60068-2-27 / EN61373			•
			•
/ibration EN60068-2-64 / EN61373			•
/ibration EN60068-2-64 / EN61373 MI-Conformity FN50121-3-2 / FN301489-1			
MI-Conformity EN50121-3-2 / EN301489-1 Safety (according to FN62368-1)			designed to meet
<u>'</u>			designed to meet tbd

Product specifications subject to change without notice. | All data is for information purposes only and not guaranteed for legal purposes. Information in this data sheet has been carefully checked and is believed to be accurate. However, no responsibility is assumed for inaccuracies. Please refer to the user documentation for additional product specification.

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