

#### 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
Nemory / Storage			
2 cache			1.5MB
267MT/s LPDDR4x RAM soldered on board			16GB
nternal eMMC			32GB
Fast socket with latching retainer <sup>2</sup>			1
1icroSD Card socket 2			1
eatures			
eal time clock (RTC) with battery backup			CR2477N
lardware Watchdog & Temperature supervisor			•
ntelligent power management (Ignition controller)			•
PM 2.0 according to ISO/IEC11889			•
IEFI Secure Boot key material must be provided by customer			•
nertial measurement unit STMicroelectronics ISM330DHCXTR			•
Communication Interfaces			
isplayPort 1.4 (4096 x 2160 @ 60Hz)			1
SB version 3.1	(Type A)		2
thernet 10/100/1000 BASE-T (1x Intel® GbE   1x Intel® I210-IT)	(M12 female x-coded)		2
AN 2.0A/B & CAN FD (PEAK FPGA chip, SJA1000 compatible) active/passive, isolated	(DSUB9)		2
1.2 Key B socket <sup>2 - used for LTE-4G extensions</sup>	(3042)		
1.2 Key E socket <sup>2</sup> - used for WiFi extensions	(2230)		
fini PCle socket <sup>2</sup>			1
uzzer			•
Vireless connectivity			
G LTE Cat-13 (3G fallback) Sierra Wireless EM7590 - M2M only!	(2x SMA)		•
Oual nano SIM slot for cellular modules for 4G module			•
NSS module u-blox NEO-M9V Module	(1x SMA)		•
ligh precision GNSS module (with IMU, RTK) u-blox ZED-F9P/R	(1x sMA) <sup>3</sup>		on request
Vireless LAN (Wi-Fi 6) 802.11ac/a/b/g/n/ax Intel, Bluetooth 5.2 Module Intel Wireless- AX210	(2x RP-SMA)		•
echnical Data			
xterior Dimensions [mm] (housing incl. mounting plate)			w228 x h53 x d127
let weight [gram]			~1750
Ion-isolated input voltage, with ignition controller function, reverse polarity protected	(M12 4P male a-coded)		8.4 45VDC
ower consumption typ. in Watt @ 24V without Add-Ins, idle			~17
invironmental Conditions			
perating temperature <sup>4</sup>			-40°C +70°C
on operating temperature (Recommended storage temperature 20°C 25°C)			-40°C +85°C
ngress protection standard according to EN60529			IP40
onformal coating <sup>5</sup>			on request
NECE-R10 certified (E-mark)			on request
hock EN60068-2-27 / EN61373			•
ibration EN60068-2-64 / EN61373			•
MI-Conformity EN50121-3-2 / EN301489-1			•
afety (according to EN62368-1)			designed to meet
dicty (decording to EN02500 1)			tbd
ATBF @ 25°C according to Telcordia SR-332, Environment GM, excluding CFast and optional interfaces			ινα

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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Syslogic Datentechnik AG Täfernstrasse 28 CH-5405 Baden Dättwil For further information and support: info@syslogic.com support@syslogic.com www.syslogic.com

+41 56 200 90 40 +49 7741 967 14 20

Switzerland (Headquarters) Germany and Austria





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## US

sales@assured-systems.com

Sales: +1 347 719 4508 Support: +1 347 719 4508

1309 Coffeen Ave Ste 1200 Sheridan WY 82801 USA

## **EMEA**

sales@assured-systems.com

Sales: +44 (0)1785 879 050 Support: +44 (0)1785 879 050

Unit A5 Douglas Park Stone Business Park Stone ST15 0YJ United Kingdom

VAT Number: 120 9546 28

Business Registration Number: 07699660