

## Vehicle Computer

## **COMPACT-VSL Series**

Embedded In-Vehicle Computer with Intel® Atom™ E39xx processor



# IPC/VSL81

This fan less Vehicle VSL COMPACT81 generation is based on the Intel® Atom™ E3900 (formerly Apollo Lake) processor technology and offers a wide range of interface options. The robust and uncompromising industrial design allows the implementation in the most demanding IoT applications and guarantees long term availability.

- Multi-core 64-bit Intel® Atom™ processor
- 24/7 continuous operation
- M12 connector for Power and LAN
- Shock and vibration resistant
- Full -40...+85°C on component level







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### **Product Highlights**

Power Ignition controller Trusted Platform Module - TPM2.0 Inertial Measurement Unit (IMU) GPS with dead reckoning Fanless, No moving parts Maintenance free / Long term availability

#### **Product Features**

Intel® Atom™ E3900 Series up to 2.0GHz, up to 4 Cores RAM soldered on board up to 8GB Socket for CFast Ethernet, USB, CAN M12 connectors Stainless steel housing Protection class IP40 LTE, GNSS, WiFi & Bluetooth options

### Markets / Applications

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

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		Order Code	IPC/VSL81I20-A153I
rocessor / Performance			
ntel® Atom™ x7-E3950 2.00GHz (Burst)   1.6GHz Clock - Quad Core			•
ntel® Atom™ x5-E3940 1.80GHz (Burst)   1.6GHz Clock - Quad Core			optional
lemory			
2 cache			2MB
AM DDR3L 1866MT/s soldered on board			4GB
GB DDR3 RAM <sup>1</sup>			optional
eatures			
nertial measurement unit (IMU) STMicroelectronics ISM330DHCXTR			•
eal time clock (RTC) with battery backup Renata CR2477N (950 mAh)			•
ardware Watchdog & Temperature supervisor			•
itelligent power management (Ignition controller)			•
PM 2.0 according to ISO/IEC11889 Infineon SLB9665			•
Communication Interfaces			
isplayPort 1.4 (up to 7680 x 4320 @ 60Hz)			1
SB version 3.1	(Type A)		1
SB version 2.0	(Type A)		1
thernet 10/100/1000 BASE-T (Intel I210-IT)	(M12 female x-coded)		2
DE+ IEEE802.3at 10/100/1000Mbit requires taller housing: w228 x h85 x d127 mm	(M12 female x-coded)		optional
AN 2.0A/2.0B & CAN FD (PEAK FPGA chip, SJA1000 compatible), isolated,	(DSUB9)		2
ie CAN signals give no network feedback and are attached via non-volatile I/O port on the I2C bus	(2222)		_
Fast socket with retention frame <sup>2</sup>			1
.2 Key B socket <sup>2</sup> , used for radio options depending on config	(3042)		1
.2 Key E socket <sup>2</sup> , used for radio options depending on config	(2230)		1
ini PCle socket <sup>2</sup>	(full size)		1
icroSD Card socket <sup>2</sup>			1
izzer			1
C bus <sup>2</sup>			1
erial RS232 <sup>2</sup>			2
erial RS422/485, isolated	(DSUB9)		optional
D Audio, Line in / out <sup>2</sup>			optional
igital I/O, 24VDC (latency <1ms)	(4 inputs, 4 outputs)		optional
nalog input, 16bit resolution, voltage input: -10+10V / 0 30V Accuracy:+/-0.1%			optional
/ireless Connectivity			
G cellular module (3G/2G fallback) Sierra Wireless EM7455 - M2M only!	(2x SMA)		optional
ith dual nano SIM support			'
NSS positioning module with dead reckoning u-blox NEO-M9 Module	(1x SMA)		optional
/ireless LAN IEEE 802.11ac/a/b/g/n/ dual-band 2x2 MIMO SparkLAN WNFB-263ACNI(BT)	(2x RP-SMA)		optional
echnical Data			
terior dimensions [mm]			w228 x h55 x d12
et weight [gram]			~1750
on-isolated input voltage, reverse polarity protected	(M12 4P male a-coded)		8.4 45VDC
urrent consumption typ. in mA @ 24V without Add-Ins, idle	(MTZ II Maie a coaca)		~500
ower consumption typ. in Watt @ 24V without Add-Ins, idle			~12
nvironmental Conditions			12
perating temperature <sup>3</sup>			-40°C +70°C
orage temperature			-40°C +85°C
gress Protection standard EN60529 (ISO 20653)			IP40
ad vehicles (UNECE-R10 'E-mark')			on request
onformal coating <sup>4</sup>			on request
ock			EN60068-2-27
bration			EN60068-2-64
AC Conformity  faty (decirned to most)			EN55032 / EN5503
fety (designed to meet)			EN62368-1
adio and Telecommunication (designed to meet)  TBF @ 25°C according to Telcordia SR-352, Environment CB, excluding battery and optional extensions			RED
IDF (W. Z.) C			~480 000h

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

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For further information and support: info@syslogic.com support@syslogic.com www.syslogic.com

+41 56 200 90 40 Switzerland (Headquarters) +49 7741 967 14 20 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