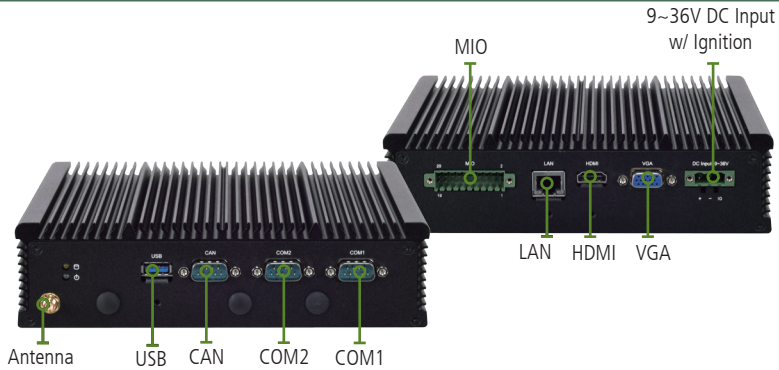


LVC-2000

Fanless Vehicle PC with Intel® Atom™ E3845 Processor



Overview

LVC-2000 is a fanless in-vehicle computer with MIL-STD-810G certified shock and vibration resistance. Built with onboard Intel® Atom™ processor E3845 (codenamed “Bay Trail”), the in-vehicle computer is a value time-to-market solution with enhanced performance and low power consumption. LVC-2000 also features multiple I/O connectivity including optional CAN bus, LAN port, GPS/G-sensor, COM ports, multiple Digital I/Os, and mini PCI Express sockets, making it perfect for vehicle monitoring, in-car infotainment and fleet management.

Features

Fanless design and Aluminum Enclosure

The fanless design reduces mechanical failures and the aluminum enclosure provides rugged protection from external damages.

Onboard Quad-core Bay Trail SoC

The new Intel® Atom™ 22 nm microarchitecture SoC CPU (codenamed “Bay Trail”) offers double the performance and five times the energy efficiency of the Atom™ previous generations.

Vehicle Power Ignition Management

Detects the ignition on/off and configures delay time with flexible setting via our software utility.

The MIO Connector

The MIO features multiple digital I/Os, including 2 x DI (Digital Input from MCU) for connection with sensors to detect the surrounding. Once an event-occurrence is defined, LVC-2000 will be turned on automatically by the connected sensor.

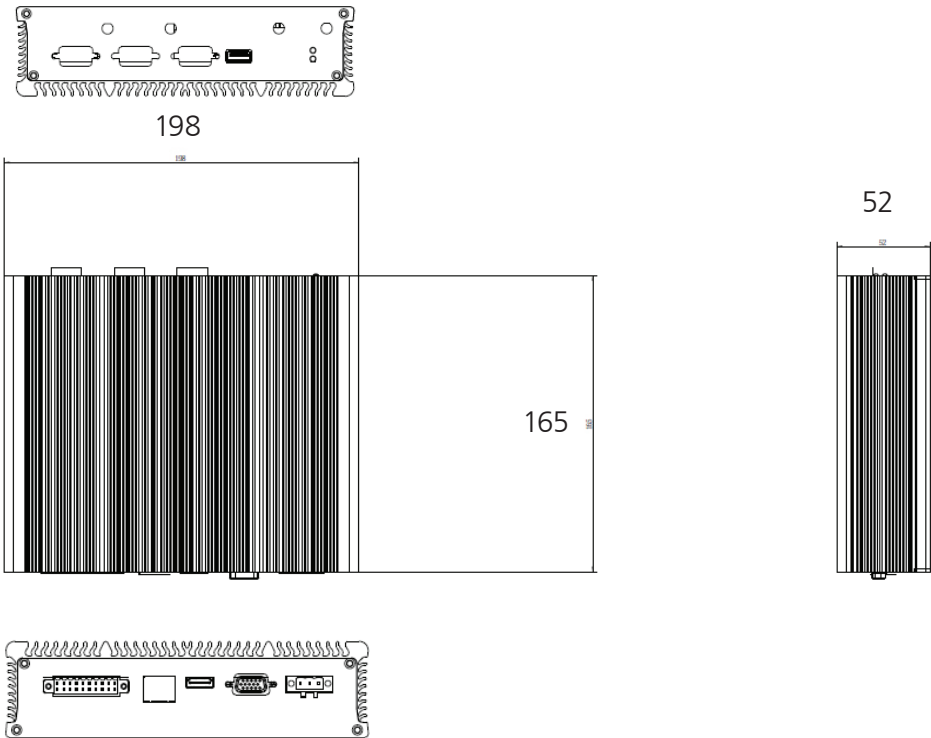
Wide Operating Temperature Workability

LVC-2000 is capable of working under wide temperature from -20 to 60°C when equipped with industrial storage devices like SSDs.

Designed for MIL-STD-810G with Extreme Vibration Resistance

LVC-2000 is in compliance with MIL-STD-810G vibration and shock standards.

Dimensions: 198 x 52 x 165 mm



Specifications

Dimensions (WxHxD)		198 x 52 x 165 mm	
Processor		Intel Atom E3845 1.91 GHz processor	
Chipset		N/A	
System Memory	Technology	DDR3L SO-DIMM x1	
	Max. Capacity	Up to 8GB	
Storage	SATA/mSATA	SATA 2.0 x1 for internal 2.5" HDD x1, mSATA x1	
Ethernet Controller		Intel i210-IT x1	
Graphic Controller		Intel integrated GMA3650 graphic engine	
Audio Controller		Realtek ALC886 HD codec	
IO	LAN	GbE RJ45 x1	
	Display	DB15 x1 for VGA, HDMI x1	
	CAN Bus	A1 SKU: 1x CAN Bus for J1939/J1708 B1 SKU: 1x CAN Bus (Optional for OEM)	
	Serial I/O	DB9 Male x2 support RS-232/485 with RI/5V/12V, RS232 by default	
	GPS/G-sensor	Ublox NEO-8N / ADXL 345	
	Digital I/O	4x DI 12V level	
		4x DO 12V level 2x DI (from MCU) 3.3V Level, 1x relay (2A, 12V/24V) 12VDC power output	
	USB 3.0	Type A x1, reserved 2 x USB 2.0 pin headers	
	Power Input	3-pin terminal block (+, -, ignition)	
	Expansion	1x Full-size Mini-PCIe socket, 1x half-size Mini-PCIe socket	
Others	External: 3x SMA antenna hole Internal: 1x SIM card reader		
Power Input		DC Input: 9~36V for +12V-level and +24V-level car battery	
		Ignition Control: Supports ignition on/off and delay power-on/off system, time frame by software setting	
AC Adapter		Ordering option	
Hardware Monitor		Fintek F81865 integrated watchdog timer 1~255 level	
OS Support		WES7 (WS7E) /W7 Pro SP1 / WE8 STD /WIN 10 IOT/ WIN 10 IOT Retail and TC, Linux kernel 2.6.X or later	
Certifications		CE, FCC Class A, E13, RoHS, SAE J1455	
Compliance		Temperature: MIL-STD-810G, Method 500.5, 501.5, 502.5, 503.5 Vibration: MIL-STD-810G, Method 514.6, 516.6 Shock: MIL-STD-810G, Method 516.6	
Operating Temperature Range	Extended	With selected industrial components -20~60°C / -4~140°F	
	Standard	With commercial components -5~45°C / 23~113°F	

Ordering Information

LVC-2000-A1

Intel® Atom™ Quad Core E3845 in-vehicle computer, DDR3L x1, Mini-PCIe x2 plus one SIM card reader, Intel GbE x1, USB x1, CAN Bus for J1939/J1708 x1, COM x2, 12V TTL DIO, +9~36Vdc power input with ignition

LVC-2000-B1

Intel® Atom™ Quad Core E3845 in-vehicle computer, DDR3L x1, Mini-PCIe x2 plus one SIM card reader, Intel GbE x1, USB x1, Optional CAN Bus for OEM, COM x2, 12V TTL DIO, +9~36Vdc power input with ignition