LVC-5550S

Fanless Vehicle PC with Intel Atom D2550 Processors Preliminary Specifications

12V DC Out / DC Input — DVI-D — VGA — DIO
3G Antenna — SIM Card
3x COM — Audio — Audio for 3G
4x USB
Removable HDD/SSD — 2x LAN — Remote Power Switch
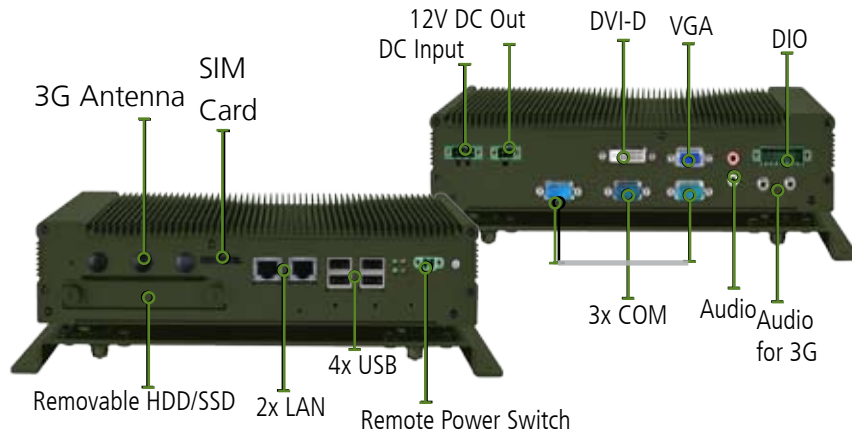
Features

Fanless Design with Corrugated Aluminum

The corrugated aluminum casing allow heat to dissipate off the top of the platform allowing for a fanless design.

Design for MIL-STD-810G with Extreme Operating Temperature

This product is ruggedized to support a wider than usual range of temperatures. Outfitted with industrial components (HDD/SSD, CF, Memory) this appliance can thrive in harsh conditions from -30 to 60°C.

Vehicle Ignition Power Management

Detects the ignition on/off status and allow to control delay time by flexible setting via software utility.

3G Ring/SMS System Power On

LVC-5550S can be turned on remotely via 3G module by making ring call or sending SMS.

3G Voice Communication

This vehicle PC supports 3G voice communication which allows people can communicate with operating center through voice directly.
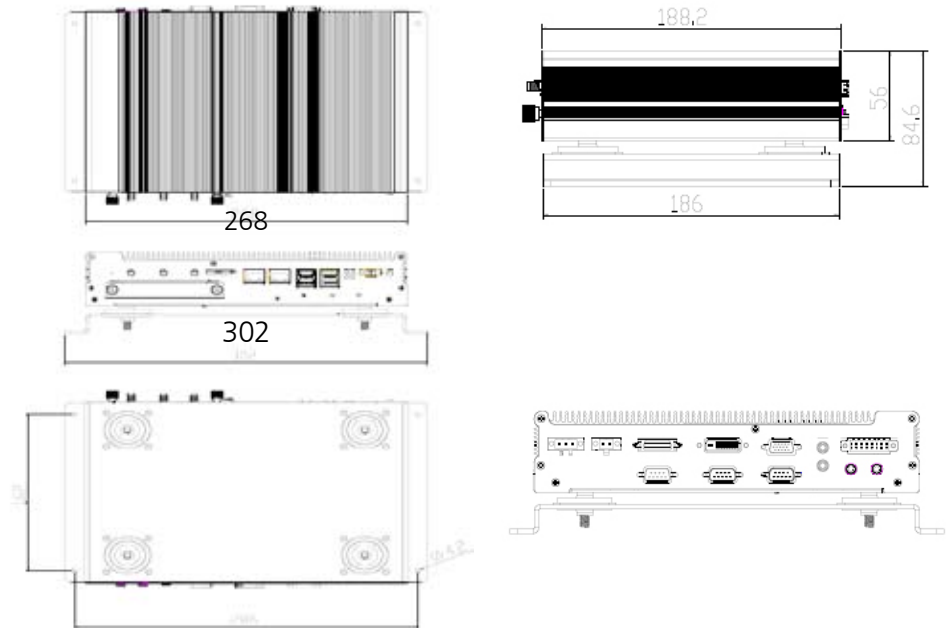
Diversity of Digital Input/Output and Relay Support

LVC-5550S supports 2x DI (Digital Input from MCU) which can connect sensors to detect the environment. Once certain events occur, LVC-5550S can be turned on automatically. DI/DO supports 12V level for easy usage with vehicle parts.1 x relay (2A, 12V/24V) is supported for bigger driving capability.

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

LVC-5550S is in compliance with MIL-STD-810G in vibration and shock with SSD storage.

Dimensions: 268 x 188.2 x 56 mm

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Specifications

Dimensions (WxHxD)		268x188.2x56 mm
Processor		Intel Atom D2550 Processors
Chipset		Intel NM10
System Memory	Technology	DDR3 SO-DIMM x1
	Max. Capacity	Up to 4GB
Storage	IDE	CF socket Type I/II x1
	SATA	Removable 2.5" SSD drive bay x1
Ethernet Controller		Intel 82583V x2
Graphic Controller		Intel integrated GMA3650 graphic engine
Audio Controller		Realtek ALC886 HD codec
IO	LAN	GbE RJ45 x2
	Display	DB15 x1 for VGA, DVI-D x1, Optional LVDS (integrating USB, 12V and remote power switch)
	Audio	1x Mic-in and Line-out (for PC) 1x Mic-in and Line-out (for 3G module)
	Serial I/O	DB9 Male x2 supports RS-232/485 with RI/5V/12V DB9 Male x1 supports RS-232
	GPS	Ublox NEO-6Q
	GPIO	4x DI 12V Level 3x DO 12V Level 2x DI (from MCU) 3.3V Level, 1 x relay (2A, 12V/24V)
	USB 2.0	Type A x4,
	Power Input	3-pin terminal block (+, -, ignition)
	Expansion	Mini-PCIex3
	Others	External: 3x SMA antenna hole, 1x external SIM-card reader, 1xInternal SIM Card reader, Reset button,Power button, Remote power switch
Power Input		DC Input: 9~36V for +12V-level and +24V-level car battery
		Ignition Control: Support ignition on/off and delay Power-on/off system, time frame by software setting
		Remote power-on: 1. via 3G module. 2. via DI (from MCU) detection
Power Output		12V, (Max. 1A)
AC Adapter		Ordering Option
Hardware Monitor		Winbond W83627UHG integrated watchdog timer 1~255 level
OS Support		XPE/WES2009, XP Pro FES, WS7E, WS7P, Win 7 Pro FES
Certifications		CE, FCC Class A, E13, RoHS
Compliance		Vibration & Shock: MIL-STD-810G
Operating Temperature Range	With Industrial Components	-30~60°C/-22~140°F
	With Commercial Components	-5~45°C / 23~113°F

Ordering Information

LVC-5550S	Fanless In-Vehicle PC with suspension kit