LVC-1000

Fanless Vehicle Computer with Intel Quark X1001



Features

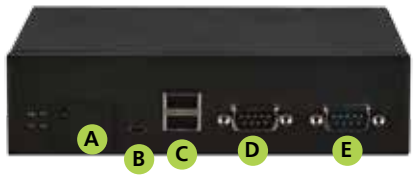
- Compact form factor
- Intel Quark SoC X1001 400 MHz CPU
- Onboard DDR3 512MB memory
- 1 x 10/100Mbps RJ45 PoE port
- Vehicle ignition power management
- 2 x mini-PCIe sockets support Wi-Fi, 3G, 4G/LTE and GPS wireless connectivity
- Optional CAN bus port
- Designed for MIL-STD-810G with extreme vibration resistance

Specifications

Processor	
CPU	Intel® Quark SoC X1001 CPU with 400 MHz
Frequency	400 MHz
Core Number	1
BIOS	AMI SPI Flash BIOS
Chipset	N/A (SoC)
Fanless	
	Yes
Memory	
Technology	DDR3 800 MHz
Max. Capacity	512 MB onboard, Max Up to 1 GB
Graphic	
Controller	N/A
VGA pin-header	N/A
Ethernet	
Controller	Support by Quark X1001
Speed	10/100 Mbps
Interface	1 x RJ45,1 x RJ45 is optional
PoE	IEEE 802.3at standard PoE
Storage	
Type	Micro SD
Installation	Support up to 4GB Micro SD card
I/O	
Serial Port	1 x RS-232, DB9 male
USB	3 x USB 2.0 type A, 1 x USB 2.0 Micro USB device port
CAN	Optional 1x High Speed CAN (up to 1 Mbps) and 1 Fault Tolerant CAN (up to 125 kbps); optional support J1939 / J1708
Serial I/O	1 x RS-232
Power-On/Reset Button	Internal reset button
LED	Power, HDD, PoE1 and PoE2
Watchdog Timer	
Watchdog timer 256 level time interval system reset, software programmable	

Power	
Power Supply Voltage	DC 9~36V, GND and ignition switch with OCP and OVP
Connector	1x 3-pin terminal block for DC 9~36V, GND and ignition
Power Consumption	TBD
Power Adaptor	N/A
Environment	
Operating Temperature	-20~70°C
Storage Temperature	-40~85°C
Relative Humidity	5% ~ 95%, non-condensing
Mechanical	
Dimension (W x H x D)	162.8 x 41 x 133.8 mm
Construction	Heavy Steel
Weight	0.6 kg
Mounting	Wall mount
Driver Support	
Linux	Linux, Driver Support: Quark X1000 Software Stack
Certification	
EMC	CE/FCC Class A, E13, RoHS
Safety	None
Compliance	
Vibration/Shock	Vibration: MIL-STD-810G, Method 514.6 Shock: MIL-STD-810G, Method 516.6

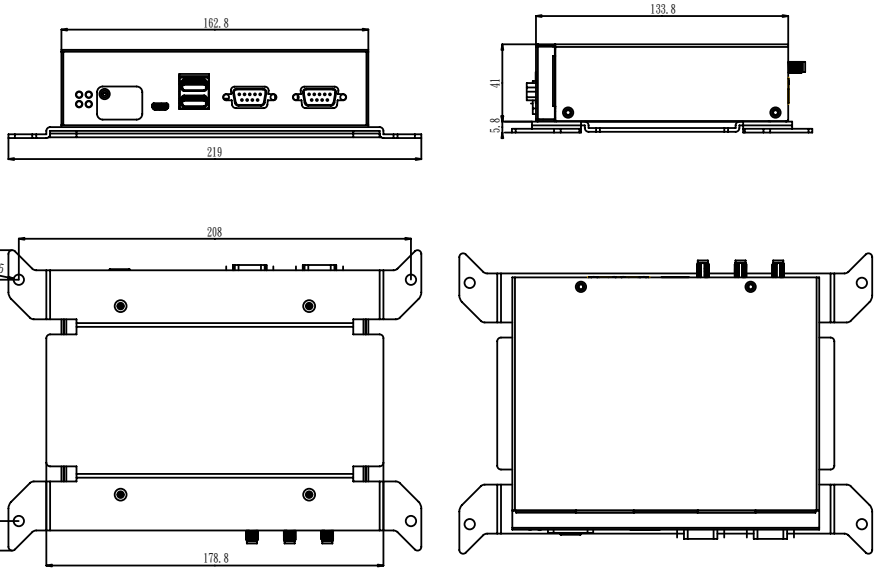
Product I/O View





A	Micro SD	D	Optional CAN	G	PoE port
B	Micro USB	E	COM	H	Power Ignition
C	USB	F	Audio/MIC ports	I	Antenna

Dimensions 162.8 x 41 x 133.8 mm



Ordering Information

LVC-1000	Intel® Quark SoC X1001 400 MHz In-Vehicle Computer, onboard DDR3 512MB, Mini-PCIe x2, Intel PoE x1, USB 2.0 host x 3, USB 2.0 client x1, RS232 x1, Optional CAN Bus x1, DC Power input +9~36Vdc with Ignition

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