

ARS-2510

EN50155 High Performance Box PC



Features

- 3rd generation Intel® Core™ i7 Ivy Bridge™ platform
- SO-DIMM DDR3/DDR3L up to 8GB
- Direct X11, OpenGL3.1, OpenCL1.1, dual independent display: VGA + DVI-D ports
- 2 x GbE LAN by M12, 2 x USB (1 x M12) and 2 x COM ports
- 3 x MiniPCle expansions and 1 x mSATA
- WiFi, 3G, GSM-R and GPS
- 2 x 2.5" SSD expansions and RAID 0/1
- Power inputs compliant to EN50155 24V/48V/72V/110V
- IP50+ and conformal coating protections
- 25°C~70°C(85°C for 10 minutes) EN50155 T3 temperature level with EN45545 compliant



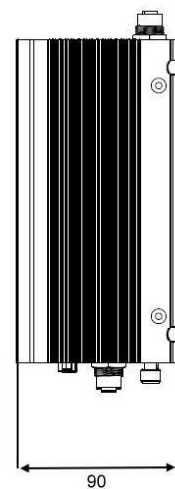
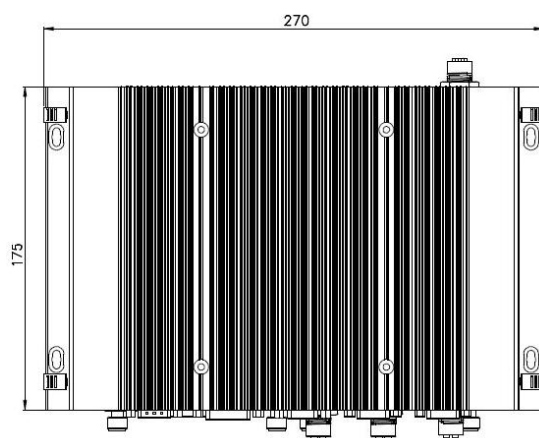
Specification

Processor System	CPU	Intel® ULV Core™ i73517UE
	Max Speed	Dual Core 1.7GHz (max 2.8GHz with Turbo Frequency)
	L3 Cache	4 MB
	System Chipset	Intel® QM77
	BIOS	AMI EFI 64Mbit
Memory	Technology	DDR3 1600MHz, DDR3L 1333MHz
	Max. Capacity	8GB
	Socket	1 x 204-pin SO-DIMM
Graphics	Chipset	Intel QM77 Integrated GFX Gen 7
	Graphic Engine	DirectX11, OpenGL 3.1 and Open CL 11
	Video Resolutions	VGA up to 2048 x 1536 @ 75Hz DVI up to 1920 x 1080
	Dual Display	VGA+DVI
Ethernet	LAN1	10/100/1000 Mbps Intel 82579LM Ethernet controller (M12 connector)
	LAN2	10/100/1000 Mbps Intel 82583V Ethernet controller (M12 connector)
Audio	Interface	Realtek ACL892, High Definition Audio, Line-out, Mic-in, Line-in
I/O Interface	Serial Port	2 x RS-232/422/485 port with auto flow control and jumperless configuration
	USB Interface	2 x USB 3.0 ports, 1 x USB 2.0 port (2 x type A, 1 x M12)
Other	Watchdog Timer	Hardware, 255 levels timer interval, setup by software
Storage	Internal	1 x mSATA Socket and 1 x CFAST Socket
	SSD	Expansion Module for 2 x 2.5" SSD driver bay (RAID only with Core i7 version)
Expansion Function	GPS	50 channels, -160dBm Sensitivity, A-GPS and Galileo capable
	WIFI	802.11a/b/g/n
	3G/LTE	HSUPA Tri-Band and GSM Quad-band, up to 7.2Mbps downlink
	GSM-R/GPRS-R	Quad-band, GPRS multi-slot class 10, GSM Pahse2/Phase2+
	G-Sensor	Digital Accelerometer Ultra low power, 10-bit resolution
	Gyroscope	Turn rate sensor for dead reckoning (SPEED+ and FWD+ signals on DB15 connector)
Expansion I/O	Optional Module	CAN Bus, Isolated Serial Port, Isolated Digital I/Os, LAN Module, 2 Ports LAN Gigabit
Software Support	Microsoft Windows	Windows 7, Windows 7 Embedded
	Linux	Redhat 6.3
	API	Advantech SUSi Access
	Intel iAMT	V8.0
Power Request	Power Type	4 poles of M12
	Power Input Voltage	24Vdc , 48Vdc, 72Vdc, 110Vdc (Optional)
Mechanical	Construction	Aluminum Housing
	Dimensions(W x H x D)	270 mm x 90 mm x 175 mm
	Weight	5Kg

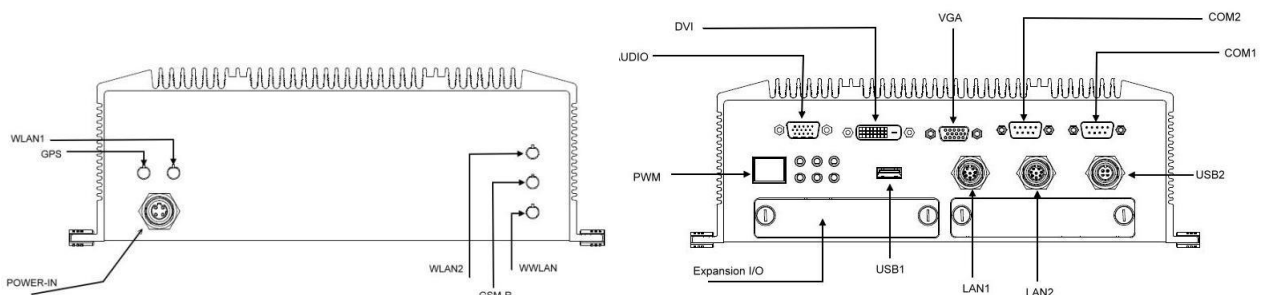
Specification Cont.

Environment	Operating Temperature	-25 ~ 70°C * T3 EN50155 with 0.7m/s airflow (pre-scan done only for Core i7) * at 70°C for 72h with 50% CPU load at 2.8GHz * at 85°C for 10 minutes with 50% CPU load at 800Mhz
	Storage Temperature	-40 ~ 85°C
	Relative Humidity	95% 40°C (non-condensing)
Certificate	Vibration/Shock	MIL-STD-810 EN50155
	Railway Related	EN50155, EN50121, IEC61373
	Radio Frequency	FCC and CE RF
	EMC	CE/FCC Class A
	Safely Certifications	UL

Dimensions



Unit: mm



Ordering Information

Voltages	Part Number	Processor	VGA	DVI	Dual LAN	Dual COM	Dual USB	Audio	GSM-R	3G	Wi-Fi	GPS
24V	ARS-2510T3-10A1E	Intel® i7-3517UE	v	v	v	v	v	v	v	v	v	v
	ARS-2511T3-10A1E	Intel® i7-3517UE	v	v	v	v	v	v		v	v	v
	ARS-2512T3-10A1E	Intel® i7-3517UE	v	v	v	v	v	v				
48V	ARS-2510T3-20A1E	Intel® i7-3517UE	v	v	v	v	v	v	v	v	v	v
	ARS-2511T3-20A1E	Intel® i7-3517UE	v	v	v	v	v	v		v	v	v
	ARS-2512T3-20A1E	Intel® i7-3517UE	v	v	v	v	v	v				
72V	ARS-2510T3-30A1E	Intel® i7-3517UE	v	v	v	v	v	v	v	v	v	v
	ARS-2511T3-30A1E	Intel® i7-3517UE	v	v	v	v	v	v		v	v	v
	ARS-2512T3-30A1E	Intel® i7-3517UE	v	v	v	v	v	v				
110V	ARS-2510T3-40A1E	Intel® i7-3517UE	v	v	v	v	v	v	v	v	v	v
	ARS-2511T3-40A1E	Intel® i7-3517UE	v	v	v	v	v	v		v	v	v
	ARS-2512T3-40A1E	Intel® i7-3517UE	v	v	v	v	v	v				

Optional Modules

Part Number	Product Description
AIO-SSD110-00A1E	Single SSD board with DIO for ARS-2510
AIO-COM210-00A1E	Dual COM ports with isolation for ARS-2510
AIO-CAN210-00A1E	Dual CAN ports with Isolation for ARS-2510

Design & Manufacturing Services

This product is designed for customers who are looking for a standard box pc system with fast implementation but high performance to incorporate into this product reselling directly or using customers' brand name for the market.

■ For sales inquiries or further information, please contact us:

Region	Phone	Email
America	1-888-576-9668	buy@advantech.com
Europe	00800-2426-8080	customercare@advantech.eu
China	800-810-0345	sales@advantech.cn
Other	886-2-2792-7818	inquiry@advantech.com