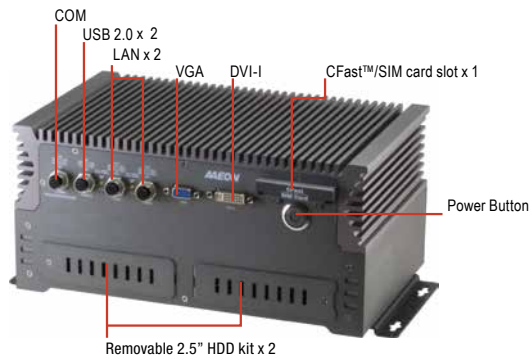
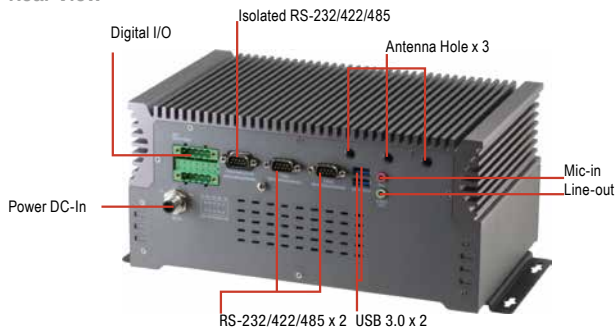


## Railway Embedded Box PC with Intel® Core™ i7-3517UE Processor

Front View



Rear View



## Specifications

CPU	Intel® Core™ i7-3517UE (4M Cache, up to 2.80 GHz)		
Chipset	Intel® QM77		
System Memory	DDR3 1333/1600 SODIMM x 2, up to 16 GB (4 GB pre-installed)		
Display Interface	VGA	DB-15 x 1 for VGA	
	DVI	DVI-I x 1	
	HDMI	—	
	Others	—	
Storage Device	CF/CFast™	CFast™ slot x 1	
	2.5" HDD/SSD	2.5" SATA HDD bay x 2 (w/ HDD Pluggable LED Switch) *Hot pluggable, hot swappable *Supports RAID 0, 1	
Network	LAN	Gigabit Ethernet	
Device	Wireless	Optional by Mini-Card wireless module	
	USB Host	USB 2.0 x 2 (M12, Female) M12 female x 1 for USB 2.0 x 2	
	LAN	M12 female x 2 for Gigabit Ethernet (Intel®)	
	Serial Port	M12 female x 1 for RS-232/422/485	
	DIO	—	
	Audio	—	
	KB/MS	—	
	Others	Power on/off LED button x 1, VGA x 1, DVI-I x 1 CFast™ slot x 1 (covered) SIM card slot x 1 (covered) Removable 2.5" HDD kit (SATA III-6.0 G) x 2	
	Rear I/O	USB Host	USB type A x 2 for USB 3.0
		LAN	RJ-45 x 2 for Gigabit Ethernet (Intel®)
Serial Port		DB-9 x 1 for RS-232/422/485 (isolated), DB-9 x 2 for RS-232/422/485	
DIO		Digital input x 4 (isolated), Digital Output x 2 (isolated)	
Audio		Line-out x 1, mic x 1	
KB/MS		—	
Others		M12 4-pin male x 1 for DC-in (16.5 ~ 75V, 43~160V) Antenna hole x 3	

## Features

- Onboard Intel®™ Core i7-3517UE
- Isolated RS-232/422/485 x 1/ Power (OVP/ LVP/ SCP)
- Isolated Digital Input x 4 + Digital Output x 2
- Wi-Fi/ 4G/ GPS
- 12 ~ 36V, 16.5 ~ 75V, 43 ~ 160V Power Input
- Rugged M12 Connector for LAN/ Serial/ USB/ Power
- EN50155Tx Certified
- EN45545 Certified

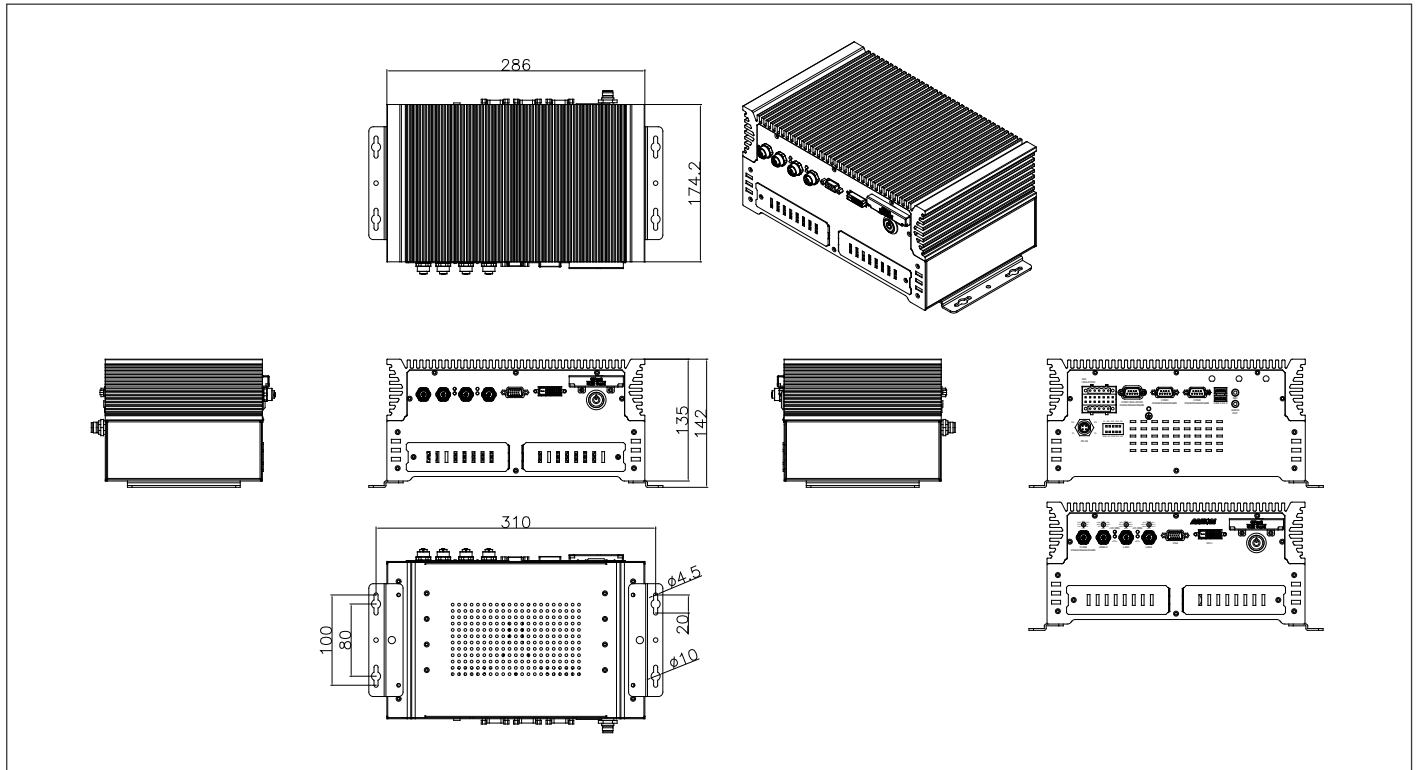


Expansion	PCI-E [x1]	—
	PCI	—
	Mini-Card	Ful-sized Mini-Card x 3 (BOM optional mSATA)
	Mini PCI	—
Indicator	Others	Sim card socket x 3
	Front	System LED x 1 on power button
Power Requirement	Rear	—
	Power Consumption	—
System Cooling	Passive	
Mounting	Wallmount	
Operation Temperature	-40°C to 70°C, 85°C for 10 minutes	
Humidity	Conforms to EN 50155/EN50125-1 Test method EN 60068-2-30 (variant 1)	
Altitude	<2500meters	
Salt Mist	Conforms to EN50155	
Insulation Resistance	Conforms to EN50155	
Voltage withstand	- Conforms to EN50155	
	- Power supply voltage range conforms to Italian standard ST306158 0,6<U/Un<1,5	
	- Power supply variation conforms to Italian SCMT 0,6<U/Un<1,67 during 0,1 sec - Power supply voltage switching (EN 50155 § 3.1.3) Class C1	
Mechanical Earth Continuity	Conforms to Standard STM-E-001 Acceptance criteria = R<100 mΩ Every metallic part accessible to the user must be connected to mechanical earth (NF F 60100)	
	Pollution	Compliant with EN60721-3-5 standard
EMC	Compliant with EN50121 standard, EN55022/ EN55024	
ESD	Conforms to EN 50155	
Expansion Slot	PCIe Mini-Card x 3	
Radiated electromagnetic fields	Radiated immunity test method EN 61000-4-3	
Immunity to fast transients bursts	Conforms to Standard reference: EN 50155 (§ 10.2.7)/ EN 50121-3-2 Fast transient burst immunity, Test method EN 61000-4-4	
Surges immunity	Standard reference: EN 50155 (§ 10.2.6.2)/ EN 50121-3-2 Surge immunity, Test method EN 50155 (§ 10.2.6.2)	
Conducted disturbances induced by radio-frequency fields	Test method EN 61000-4-6, 150kHz-80MHz 1kHz, 80%AM, 10 Vrms	
Emission measurement	Conducted emissions standard reference: EN 50155 (§ 10.2.8.2)/ EN 50121-3-2	
	Radiated emission, test method EN 55011, Class A, 30MHz-230MHz 40dBµV, 230MHz-2.4GHz 47dBµV.	
Protection against electrical hazards	PD2 environment as defined in EN50124 Over-Voltage degree (OV2) rationale	
Fire and smoke	Conforms to NF F 16101 for cables and NF F 16102 for equipment	
Shocks and vibrations	Test method EN 61373 (random vibration)	
	Test method EN 61373 (random vibration)	
	Test method EN 61373 (random vibration)	
Dimension (W x H x D)	11.26" x 6.86" x 5.32" (286mm x 174.2mm x 135mm)	
Gross Weight	18.2 lb (8.3 kg)	
Net Weight	—	
Note	Windows® 7, Windows® 8.1, Windows® XP	

# BOXER-6357VS

## Dimension

Unit: mm



## Ordering Information

Part Number	CPU	RAM	LAN	USB 3.0	USB 2.0	RS-232/422/485	RS-232/422/485 with isolation	Isolation DIO	Audio	Storage	Display	Expansion	Mounting	Power	Temp.
BOXER-6357VS-A4-1010	i7-3517UE	4 GB	2	2	2	3	1	DI x 4 DO x 2	Line-out x 1 Mic-in x 1	2.5" HDD/SDD bay x 2 CFast™ slot x 1	DVI-I x 1 VGA x 1	Full size mini card slot x 3, SIM card slot x 3	Wallmount	DC 12-36V in DC 24V out	-40°C ~ 85°C EN50155 Tx
BOXER-6357VS-A5-1010	i7-3517UE	4 GB	2	2	2	3	1	DI x 4 DO x 2	Line-out x 1 Mic-in x 1	2.5" HDD/SDD bay x 2 CFast™ slot x 1	DVI-I x 1 VGA x 1	Full size mini card slot x 3, SIM card slot x 3	Wallmount	DC 16.5-75V in DC 24V out	-40°C ~ 85°C EN50155 Tx
BOXER-6357VS-A6-1010	i7-3517UE	4 GB	2	2	2	3	1	DI x 4 DO x 2	Line-out x 1 Mic-in x 1	2.5" HDD/SDD bay x 2 CFast™ slot x 1	DVI-I x 1 VGA x 1	Full size mini card slot x 3, SIM card slot x 3	Wallmount	DC 43-160V in DC 24V out	-40°C ~ 85°C EN50155 Tx

## Packing List

- Waterproof Power Kit x 1
- Wallmount Bracket x 2
- M12 Power DC Jack Kit x 1
- M12 USB Y Cable x 1
- M12 COM Cable x 1
- M12 LAN Cable x 2
- Product DVD
- BOXER-6357VS

## Optional Accessories

- **9751640300**  
4G Module & Antenna (for Europe)
- **9751640301**  
4G Module & Antenna (for USA)
- **9751640303**  
WiFi/BT Module & Antenna
- **1702040150**  
Power Cable with Female Connector
- **170008030D**  
USB Y Cable with M12 Male Connector
- **170009030A**  
COM Cable with M12 Male Connector
- **170008030E**  
LAN Cable with M12 Male Connector
- **M996356000**  
Waterproof Power Kit