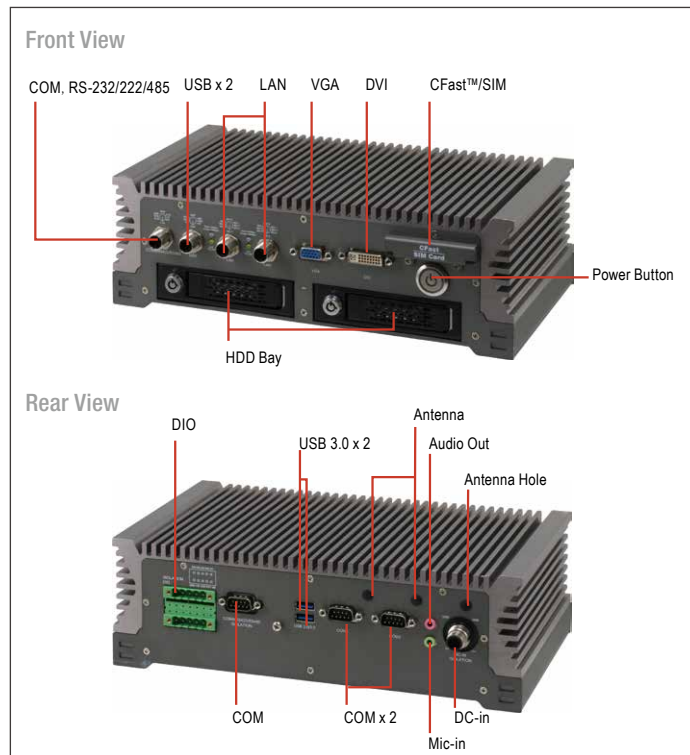


Railway Box PC with Onboard Intel® Core™ i7/ Celeron® M Processor

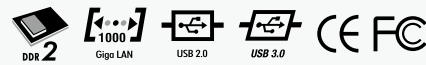


Specifications

System	
Processor	Intel® Core™ i7-3517UE up to 2.8 GHz, Intel® Celeron® 827E, 1.4 GHz
Chipset	Intel® QM77
System Memory	DDR3 SODIMM x 1, up to 8 GB
Display Interface	DB-15 x 1 for VGA DVI-D x 1
Storage Device	CFast™ x 1, SATA 6.0 Gb/s x 2 (Support RAID 0,1)
Front I/O connector	USB 2.0 x 2 (M12), RS-232/422/485 x 1 (M12), Giga LAN x 2 (M12), VGA x 1 (DB-15), DVI-I x 1, Power button, CFast™ slot x 1, SIM card slot x 1
Rear I/O connector	Digital input x 6, Digital output x 2, USB 3.0 x 2 (Type A), RS-232 x 2 (DB-9), RS-232/422/485 x 1 (DB-9, Isolated), Line-out x 1, mic x 1, Power input (17 ~ 30VDC) (M12)
Digital Input	Isolated digital input Max. voltage input: Logic level 0: +2.5 V max. Logic level 1: +5 V
Digital Output	Isolated digital output Max. frequency of IDO Max. voltage output: +5 V, Max. current output: 50mA Isolated 5V Output (with short protection) Max. voltage output: +5 V max. Max. current output: 200mA
Serial Interface	RS-485: isolated 1000V _{DC} (Rear I/O)
Expansion Slot	Full-size Mini-PCIe x 1, Half-size Mini-PCIe x 1 (WiFi/ 3G/ GPS)(Optional)
Indicator	System LED x 1
OS Support	Window® XP Embedded, Window® XP, Windows® 7, Window® Embedded Standard 7, Linux Fedora
Mechanical	
Mounting	Wallmount
Dimension	11.26" x 6.46" x 3.62" (286mm x 164.2mm x 92mm)
Gross Weight	15.4 lb (7 kg)
Net Weight	—
Power Supply	
DC Input	DC 17 ~ 30V (M12) Over-voltage protection, Low-voltage protection, Short circuit protection

Features

- Onboard Intel® Core™ i7-3517UE or Celeron® 827E Processor
- EN50155Tx Certified
- Isolated RS-232/422/485 x 1
- Isolated Digital Input x 6 + Digital Output x 2
- WiFi/ 3G/ GPS
- Rugged M12 Connector for LAN/ Serial/ USB/ Power
- 17V~30V (Certified by EN50155), 17V~75V (Compliant with EN50155)
- Supports OVP/UVP/SCP/Reverse-Voltage Protection



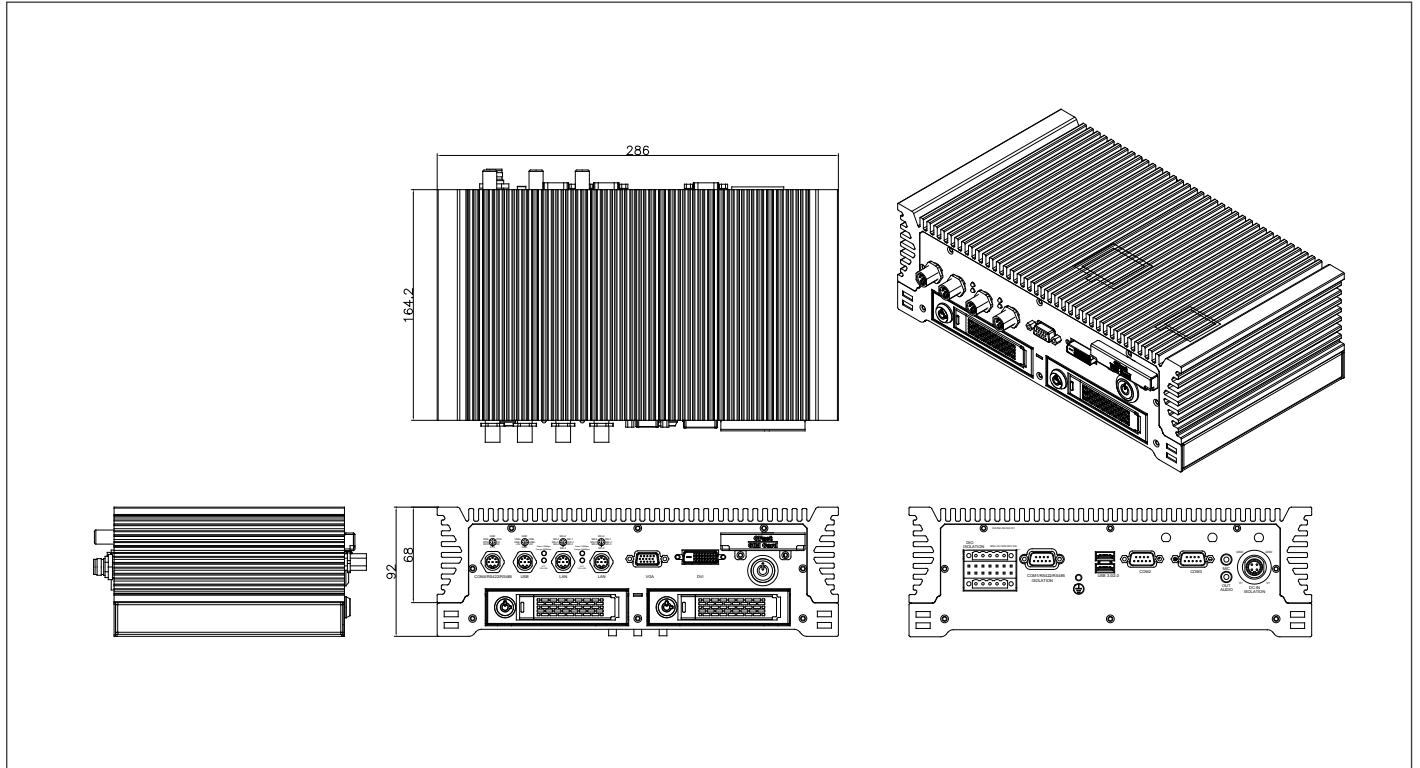
Environment Test

System	
Operation Temperature	-40°F ~ 158°F(-40°C ~ 70°C)(85°C for 10 Minutes), EN500155 Tx
Humidity	Conforms to EN 50155/EN50125-1, Test method EN 60068-2-30 (variant 1): Yearly average at 75 % HR, 30 days at 95 % HR, Occasionally at 100 % HR Tropicalisation and mist constraints
Insulation Resistance	Conforms to EN50155
Voltage withstand	Conforms to EN50155, Power supply voltage range $0.7u < u < 1.25u$, u = normal Voltage, 24V
Mechanical Earth Continuity	Compliant with EN50155 standard
Pollution	Compliant with: EN60721-3-5 standard
EMC	Compliant with EN50121 standard
ESD	Conforms to EN 50155
Radiated Electromagnetic Fields	Radiated immunity test method EN 61000-4-3: The frequency range for the tests shall be done until 2.4 GHz, and an attenuation of 20 V/m.
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, ± 2kV- repetition frequency: 5 kHz, ports referenced to the battery: direct injection, other signals: capacitive coupling.
Surges Immunity	Standard reference: EN 50155 (§ 10.2.6.2) / EN 50121-3-2 Surge immunity, Test method EN 50155 ±1kV
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.
Shocks and Vibrations	Test method EN 61373 (random vibration), operating test (duration > 10 min), Frequency range = 5-150 Hz, 0,7 m/s ² (longitudinal & transversal axis), 1 m/s ² Test method EN 61373 (random vibration), frequency range = 5-150 Hz, Test with equipment powered down for 5 hr, 5,5 m/s ² (longitudinal & transversal axis). Test method EN 61373 (random vibration), 50 m/s ² for 30 ms (longitudinal & transversal axis), 30 m/s ² for 30 ms (vertical axis), 3 shocks x 2 directions x 3 axes = 18 shocks
Certification	CE, FCC, EN50155, EN50121, EN45545

AEV-6356

Dimension

Unit: mm



Ordering Information

Part Number	CPU	RAM	LAN	USB 2.0	RS-232	RS-232/422/485	DIO	Storage	Display	Expansion	Mounting	Power	Operation temp.
AEV-6356-A1-1010	Core™ i7-3517UE	8 GB (Max.)	2	USB 2.0 x 2, USB 3.0 x 2	1	2	DI x 6, DO x 2	CFast™ x 1	VGA x 1, DVI-D x 1	Full size Mini-PCIe x 1, Half size Mini-PCIe x 1	Wallmount	17 ~ 30V certified by EN50155, 17 ~ 75V compliant with EN50155	-40°C ~ 70°C (85°C for 10 minutes)
AEV-6356-A2-1010	Celeron® 827E	8 GB (Max.)	2	USB 2.0 x 2, USB 3.0 x 2	2	2	DI x 6, DO x 2	CFast™ x 1	VGA x 1, DVI-D x 1	Full size Mini-PCIe x 1, Half size Mini-PCIe x 1	Wallmount	17 ~ 30V certified by EN50155, 17 ~ 75V compliant with EN50155	-40°C ~ 70°C (85°C for 10 minutes)
AEV-6356HDD-A1-1010	Core™ i7-3517UE	8 GB (Max.)	2	USB 2.0 x 2, USB 3.0 x 2	2	2	DI x 6, DO x 2	CFast™ x 1, 2.5" HDD x 2	VGA x 1, DVI-D x 1	Full size Mini-PCIe x 1, Half size Mini-PCIe x 1	Wallmount	17 ~ 30V certified by EN50155, 17 ~ 75V compliant with EN50155	-40°C ~ 70°C (85°C for 10 minutes)
AEV-6356HDD-A2-1010	Celeron® 827E	8 GB (Max.)	2	USB 2.0 x 2, USB 3.0 x 2	2	2	DI x 6, DO x 2	CFast™ x 1, 2.5" HDD x 2	VGA x 1, DVI-D x 1	Full size Mini-PCIe x 1, Half size Mini-PCIe x 1	Wallmount	17 ~ 30V certified by EN50155, 17 ~ 75V compliant with EN50155	-40°C ~ 70°C (85°C for 10 minutes)

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
- AEV-6356

Optional Accessories

- **1700080308**
USB Y Cable with M12 Connector
- **1700090309**
COM Cable with M12 Connector
- **1700080309**
LAN Cable with M12 Connector
- **M996356000**
Waterproof Power Kit
- **9761635600**
3G & GPS Module
- **9761635601**
WiFi 802.11 b/g/n Module