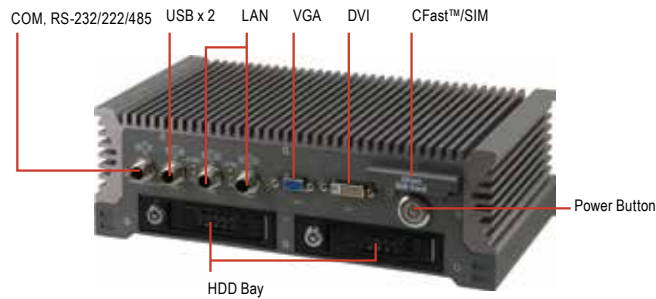


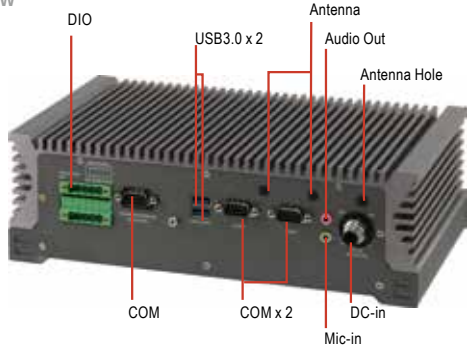
AEV-6356

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

Front View



Rear View



Specifications

| System | |
|---------------------|---|
| Processor | Intel® Core™ i7-3517UE up to 2.8GHz, Intel® Celeron® 827E ,1.4 GHz |
| Chipset | Intel® QM77 |
| System Memory | DDR3 SODIMM x 1, Max.8GB |
| Display Interface | DB-15 x 1 for VGA DVI-D x 1 |
| Storage Device | CFast™ x 1, SATA 3 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 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, Isolation), Line-out x 1, Mic x 1, Power input (17 ~ 30VDC) (M12) |
| Digital Input | 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, Isolation) Line-out x 1, Mic-in x 1 Power input (17 ~ 30VDC) (M12) |
| Digital Output | Output Channels: 2, sink type Output Current: Max. 200 mA per channel On-state Voltage: 24 VDC nominal, open collector to 30 VDC Connector Type: 10-pin screw terminal block (6 DI points, 2 DO points, DI Source, GND) Isolation: 3 KV optical isolation |
| Serial Interface | RS-485: isolation 1000VDC (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, Window® 7, Window® Embedded Standard 7, Linux Fedora |
| Mechanical | |
| Mounting | Wall / Din-rail |
| Dimension | 11.26" x 6.46" x 3.62" (286mm x 164.2mm x 92mm) |
| Gross Weight | 15.4 lb (7Kg) |
| Net Weight | — |
| Power Supply | |
| DC Input | DC 17 ~ 30V (M12) Over-voltage protection Low-voltage protection Short circuit protection |

Features

- Intel® Core™ i7-3517UE or Celeron® 827E Onboard
- EN50155Tx Certified
- Well-protection:
Isolation RS-232/422/485 x 1/ Power (OVP/ LVP/ SCP)
- Easy-to-control:
Isolation Digital Input x 6 + Digital Output x 2
Wireless Solution: WiFi/ 3G/ GPS
Rugged M12 Connector for LAN/ Serial/ USB/ Power
- Power Input: 17V~30V Certificated, and 17V~75V Compliant



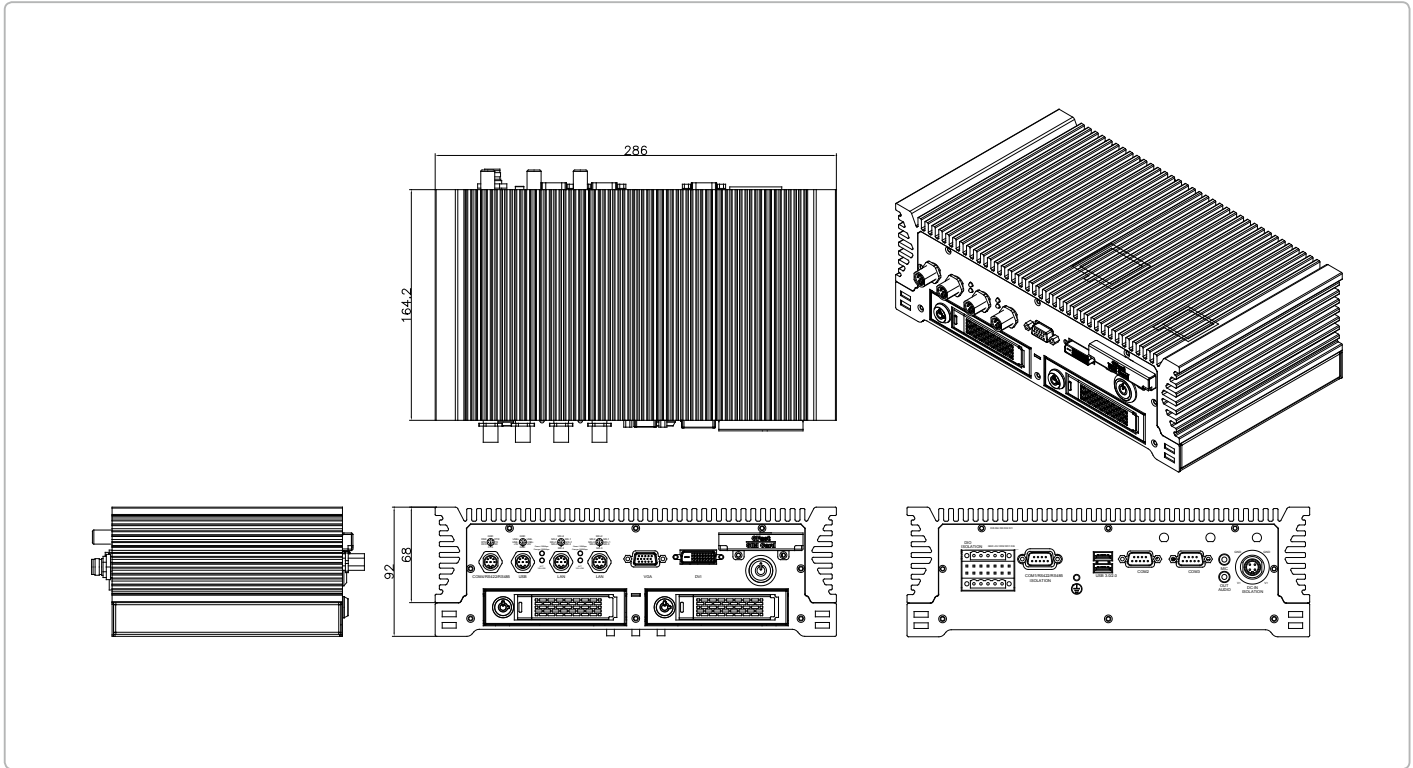
Environment Test

| 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 |
| Expansion Slot | Full-size mini PCIe x 1/ Half-size mini PCIe x 1 |
| 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/s2 (longitudinal & transversal axis), 1 m/s2 Test method EN 61373 (random vibration), Frequency range = 5-150 Hz, Test with equipment powered down for 5 hr, 5,5 m/s2 (longitudinal & transversal axis). Test method EN 61373 (random vibration), 50 m/s2 for 30 ms (longitudinal & transversal axis), 30 m/s2 for 30 ms (vertical axis), 3 shocks x 2 directions x 3 axes = 18 shocks |

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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 | 8GB (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 | Wall | 17 ~ 30V certificated by EN50155, 17 ~ 75V compliant with EN50155 | -40°C ~ 70°C (85°C for 10 minutes) |
| AEV-6356-A2-1010 | Celeron® 827E | 8GB (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 | Wall | 17 ~ 30V certificated by EN50155, 17 ~ 75V compliant with EN50155 | -40°C ~ 70°C (85°C for 10 minutes) |
| AEV-6356HDD-A1-1010 | Core™ i7-3517UE | 8GB (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 | Wall | 17 ~ 30V certificated by EN50155, 17 ~ 75V compliant with EN50155 | -40°C ~ 70°C (85°C for 10 minutes) |
| AEV-6356HDD-A2-1010 | Celeron® 827E | 8GB (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 | Wall | 17 ~ 30V certificated by EN50155, 17 ~ 75V compliant with EN50155 | -40°C ~ 70°C (85°C for 10 minutes) |

Packing List

- Wallmount Bracket x 2
- M12 Power DC Jack Kit x 1
- M12 USB Y Cable x 2
- M12 COM Cable x 1
- M12 LAN Cable x 2
- Product DVD
- AEV-6356

Optional Accessories

- **1700080308**
USB x 2 Y Cable with M12 Connector
- **1700090309**
COM Cable x 1 with M12 Connector
- **1700080309**
LAN Cable x 1 with M12 Connector
- **M996356000**
Waterproof Power Kit
- **9761635600**
3G & GPS Module
- **9761635601**
WiFi 802.11 b/g/n Module