

EN50155/EN45545 compliant Railway Box PC BRPD700-05

Features

- CPU: 7th/6th Generation Intel® Core CPU;
- RAM: 2x 4GB DDR4-2133 SO-DIMM (Dual Channel);
- EN50155 certification,
- Fanless and rugged implementation;
- Robust M12 connectors for dual GbE, USB and power input;
- Two removable 2.5" device bay and CFAST socket;
- Ignition power control
- Power Supply: 9V~36V DC / 72V DC / 110V DC

Overview

The rugged EN50155-compliant Computer Platform BRPD700-05 designed for railway applications

TECHNICAL SPECIFICATIONS

- **CPU Board:** BRPD700;
 - **CPU:** 7th/6th Generation Intel® Core CPU
 - **System speed:** 2.6GHz;
 - **Memory:** 2x 4GB DDR4-2133 SO-DIMM (Dual Channel);
 - **Design:** Aluminum;
 - **Chassis Color:** Black;
 - **Front Panel External I/O:** DVI-D, VGA, 3x COMs (2x COMs for HV model, one with RS422/485 options), 2x M12 GbE, 2x M12 USB 2.0, M12 power connection, 1st Mic-In & Line-Out, GPIO, GbE status LEDs, 1x PCI-E (x4) slot;
 - **Storage:** 2x 2.5" device bay for SSD & HDD;
 - **Expansion slots:**
 - 1x Half-size Mini PCI-E socket (USB 2.0);
 - 1x Full-size Mini PCI-E socket (USB 2.0 + PCI-E);
 - 1x 2230 Socket 1 M.2 socket (USB 2.0 + PCI-E);
 - 1x 3042 Socket 2 WWAN M.2 socket (USB 2.0);
 - 1x 2280 Socket 3 SSD M.2 socket (SATA).
 - **Power Supply:**
 - DC 9V~36V / 72V / 110V;
- **Mounting:** Custom mounting rail;
 - **Dimensions:** 256.0 (W) x 182.0 (D) x 83.0 (H) mm; 10.08" (W) x 7.17" (D) x 3.27" (H);
 - **Operating temperature range:**
 - SSD: -30°C ~ 55°C (-22°F~131°F);
 - HDD: -20°C ~ 45°C (-4°F~113°F);
 - SSD: -40°C ~ 70°C (-40F ~ 158F) system only.
 - **Storage temperature range:**
 - -35°C ~ 85°C (-31°F~185°F);
 - **Relative Humidity:**
 - 10 ~ 95% RH @ 45°C (non-condensing).
 - **Vibration:**
 - Function: 1 m/s², 5Hz ~ 150 Hz (EN 61373);
 - Lifetime: 5.72 m/s², 5Hz ~ 150 Hz (EN 61373);
 - **Shock:**
 - 50 m/s², 30 msec (EN 61373);
 - X1: connection of up to 4 devices USB 1.1/2.0 , support of booting from USB devices
 - X1: linear stereo input/output, microphone input (mono)
 - X2: 16-bit ISA bus 8/16 MHz
 - X3: port for RGB display with the resolution of up to 1920x1440
 - X3: port for LVDS panels with the resolution of up to 1920x1440
 - X3: serial ports COM1 / COM2 (entire range of signals), compatibility with 16C550 / 16C552, exchange rate up to 3 Mbaud
 - X3: PS/2 keyboard and mouse port
 - X3: universal parallel LPT port
 - X4: HDD connection port, 1 Primary channel, connection of up to 2 devices, support of Ultra-DMA 100
 - X4: LAN 10/100 Mb port
 - X4: I2C, 100 / 400 Kb port
 - X4: SMB port



- X4: "Speaker Out" port for buzzer connection
- X4: "RTC battery" port for battery power supply connection
- **Certification:** (EN50155:2007, EN50153:2014, EN50121-3-2:2015, CE class A, FCC class A, EN45545).

ORDERING INFORMATION

BRPD700-05 – BRPD700-05 with BRPD700, 6th Gen Intel® Core™ i7-6600U Processor w/ 2x 4GB DDR4-2133, 2x SSD bay, No PSU, No storage (RoHS) 24V DC;

List of accessories:

S02 BRPD700-B10300P	S/M; BRPD700-05 V-B1(4)
A024MDWIFI0040000P	4G MOUDLE;M.2 LTE
A024MDWIFI0042200P	WIFI MOUDLE;M.2 2230 2X2 AC+BT 4.0
A002SSDS3064G1000P	SSD;2.5" SATA3 64G MLC Wide Temp.
A055BTC0000010000P	20CM 4G/3G WWAN antenna cable from M.2 to SMA Jack
A055RFALTEC55U000P	LTE antenna for WW SMA
A055BTC0000020000P	20CM WLAN antenna cable from M.2 to SMA Jack
A055RFA25C2M2M100P	Dual Band WLAN antenna SMA
A008CFG032ST30100P	CARD CFAST 2.0;CFAST 3ME4 32GB SATA3 MLC
M12-PWR-Cable-1	120CM M12 Power Cable For MPT Series / Lead Only

Delivery checklist

1. BRPD700-05 Railway Box PC.
2. Packaging.