

TRW-8271 EVOC 2U 19" Rackmount IPC for Rail Transportation EN50155 Certified

Brief Introduction

TRW-8271 SERIES is a fanless sealed embedded PC. The PC is made of Al-alloy material, and the system architecture adopts modular board+backplane solution, which features simple structure. Highly reliable connectors are used for connection among the modules, which ensures highly reliable operating environment. In addition, the PC has excellent dust-proof, heat dissipation and anti-vibration environment.

The PC supports Intel® i7-6822EQ/i5-6442EQ CPU, multiple HDD expansion, multiple video ports. It supports Windows 7, Windows 10, LINUX, and etc.

The PC is a PIS and CCTV system tailored for railway. It is used for video play, multi-media video flow transmission, surveillance video recording, network content visit, and etc. The PC meets GB/T 25119-2010(EN 50155:2007), GB/T 24338.4-2009(EN50121-3-2:2006) standards.



Features

Based on Intel® CM236

Support 6th Gen Intel® Core™ i7/i5 CPU

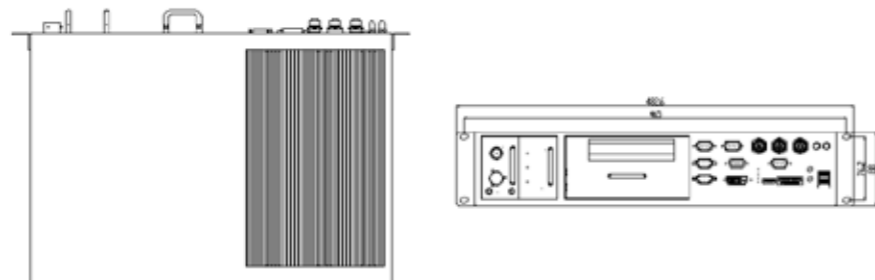
Support 4 x SATA bay and 1 x mSATA

Up to 3 x Gb LAN with M12-A connector

Support DC/AC/Battery/Super-Capacitor power supply

Meet EN50155 EMC/Safety

Product size chart



(Company : MM)

Specifications

Items		Specification
System	CPU	Onboard Intel® Core™ i7-6822EQ 2.0GHz, Onboard Intel® Core™ i5-6442EQ 1.9GHz
	Chipset	Intel® CM236
Memory		Onboard 4G DDR4 with 1 x 260PIN DDR4 SODIMM, up to 16G, Total up to 20G
Storage	SATA	4 x SATA bay
	mSATA	1 x mSATA
Display		VGA, DVI-D, HDMI, Support tri-independent display
LAN		Up to 3 x 10/100/1000Mbps M12-A, LAN1 support Wake-On-Lan
Audio		Mic-in/Line-out
Expansion		1 x PCI or 1 x PCIe4 (x16 connector), 1 x Mini PCIE with SIM slot
I/O	GPIO	8ch GPIO by DB9 female
	COM	4 xCOM DB9 support RS232/422/485 (2 of them are isolated)
	USB	2 x USB 3.0
	Audio Output	1 x 4PIN terminal block
Power Supply		DC 60 ~ 260V or AC 90 ~ 260V, Lead-acid battery, Super-Capacitor (discharge time ≥ 90S) optional
Mechanical	Dimensions	440 x 88 x 260 mm (W x H x D)
	Weight	9.9kg
	Installation	Rack mount
Environment		Operation Temperature: -25 ~ 55°C (industrial SSD/CFast) Storage Temperature: -40 ~ 70°C Humidity: 40°C, 95%RH
Reliability		MTBF ≥ 50,000h, MTTR ≤ 0.5h
EMC		EMI: meets related requirements of EN50121-3-2 Radiation disturbance:EN55022 Class A Conduction disturbance:EN55022 Class A relax 20dB EMS: ESD:EN 61000-4-2 Level 3 Burst immunity:EN 61000-4-4 Level 3 Surge immunity:EN61000-4-5 Level 3 Conduction immunity:EN61000-4-6 Level 3 Radiation immunity:EN61000-4-3 Level 3 Power frequency magnetic field immunity: EN61000-4-6,GB/T 17626.8-2006 Level 4 Pulse magnetic field immunity:GB/T 17626.9-1998 Level 4 Voltage sag and short interruptions:GB/T 17626.29-2006
Safety		Meets requirements of EN50155-2007 Insulation resistance: Insulation resistance from power supply to enclosure (500V megohmmeter) ≥100MΩ Insulation resistance from signal end to enclosure (500V megohmmeter) ≥100MΩ Power-frequency withstand voltage test: After AC1000Vr.m.s and 50Hz test voltage is applied between power supply and enclosure for a duration of 1min, no breakdown or flashover occurs. After AC500Vr.m.s and 50Hz test voltage is applied between signal end and enclosure for a duration of 1min, no breakdown or flashover occurs.
OS Support		Windows 7/8/10, Linux

Ordering Information

P/N	Model	Description
0010-112911	TRW-8271-01	EVOC 2U rackmount rail IPC/Intel® i7-6822EQ/4G DDR4/128G mSATA/2 x M12-A LAN/PCI/DC 110V/ Battery
0010-112921	TRW-8271-01	EVOC 2U rackmount rail IPC/Intel® i5-6442EQ/4G DDR4/128G mSATA/2 x M12-A LAN/PCIE/DC 110V/ Battery
1040-100411	TRW-BATTERY-03	Battery module
2100-112401	Super-Capacitor	Super-Capacitor module/12V/30W/90S
1040-100421	TRW-POWER-03	110V/DC power module/Terminal Block