

ARS-P2800

EN 50155 Intel® Celeron™ J1900 28" Fanless Railway Panel PC



Features

- Intel® Celeron™ J1900 processor
- 28" LCD panel, 1920 x 357 pixels resolution
- 1000nits high brightness
- EN 50155 certificated for railway
- -25 ~ 55 °C EN 50155 T1 temperature level, EN 45545 compliant
- 24/48/72/110 V_{DC} isolation power input
- Fanless design
- Anti-shock and vibration
- IP-65 compliant (whole system)
- Supports Linux Ubuntu 16.04

Introduction

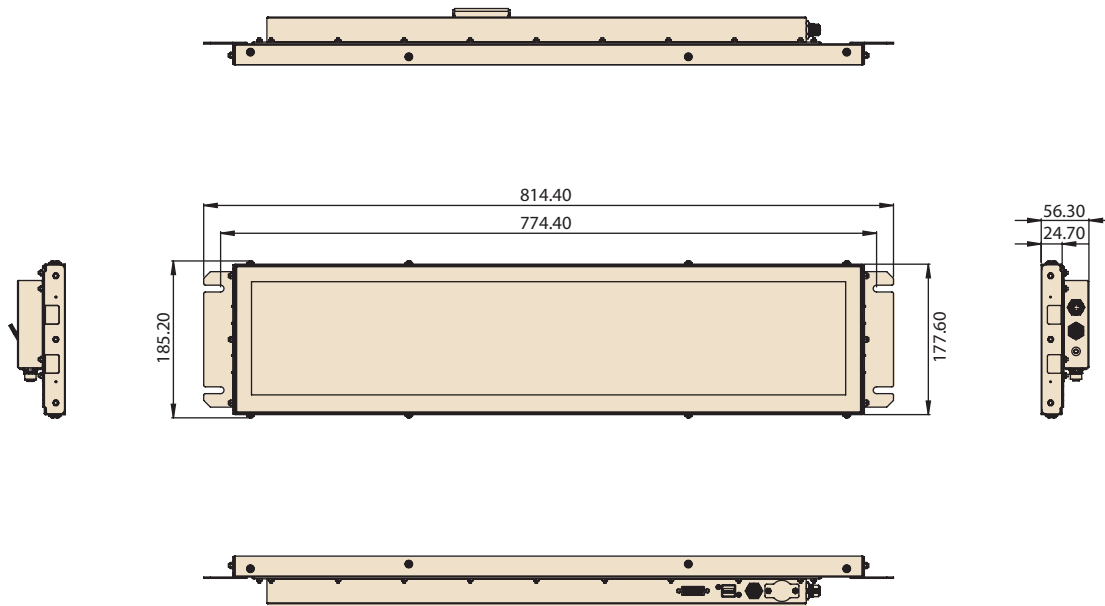
The Advantech ARS-P2800 is a fanless Passenger Information System, EN 50155 certified specially for rolling stock applications. It features a 28 inch stretched LCD panel, with brightness 1000 cd/m² and contrast ratio 6500:1, ensuring easy readability even in light-insufficient environments. It is powered by Intel® Celeron™ J1900 processor with 4GB memory, serving as a reliable platform to provide passenger information on wide versatility of vehicles, such as trains and trams.

Specifications

Computing System	CPU	Intel® Celeron™ J1900 processor
	Max Speed	Quad Core 2.00GHz
	Memory	DDR3L 1333MHz 204-pin SODIMM (Default 4GB and up to 8GB)
Storage	mSATA	1 x mSATA SSD (Default 64GB)
	Chipset	Intel® HD Graphics
Graphics	Frequency	688MHz
	Graphic Engine	DirectX11, OpenGL 4.2, OpenCL 1.2
	Display Type	28" TFT LCD panel
Display	Max Resolution	1920 x 357
	Brightness	1000nits
	Contrast Ratio	6500:1
	LAN	10/100/1000 Base-T Ethernet Interface (M12 X-coded)
Ethernet	Daisy Chain (Option)	10/100/1000 Base-T Ethernet Interface (M12 X-coded)
	USB	1 x USB 2.0 (M12 A-coded), 1x USB 2.0 (Type A)
I/O Interface	Video output	1 x DVI-D
	Linux	Ubuntu 16.04
Software	Windows	Windows 7
	Connector	M12 with 4 poles
Power	Power Input Voltage	24/48/72/110Vdc (±40%)
	Operating Temperature	EN 50155 T1 : -25 ~ 55 °C
Environment	Storage Temperature	-40 ~ 85 °C
	Relative Humidity	95% @ 40 °C (Non-Condensing)
	Vibration. Shock	EN 50155
	Ingress Protection	IP-65
	Construction	Aluminum Housing
Physical Characteristics	Dimensions (W x H x D)	814 x 178 x 56mm / 32 x 7 x 2.2in
	Weight	8.3kg / 18.3lb
	Railway Related	EN 50155 2017, EN 50121-3-2, EN 50121-4, IEC 61373, IEC 60571 (EN 45545 Compliant)
Certifications	EMC. Safety	CE/FCC Class A. UL

Dimensions

Unit: mm



Ordering Information

Voltage	Part Number	Processor	DDR3L 4GB	mSATA 64GB	DVI	LAN	USB	IP54
24V	ARS-P2800-10A1E	Intel® Celeron J1900 processor	v	v	v	v	v	v
48V	ARS-P2800-20A1E	Intel® Celeron J1900 processor	v	v	v	v	v	v
72V	ARS-P2800-30A1E	Intel® Celeron J1900 processor	v	v	v	v	v	v
110V	ARS-P2800-40A1E	Intel® Celeron J1900 processor	v	v	v	v	v	v
	ARS-P2800F-40A1E	Intel® Celeron J1900 processor	v	v	v	Daisy Chain	v	v

For sales inquiries or additional information, please contact us at Rail@advantech.com.tw