

ITA-7220

EN 50155 Intel® Celeron™ J1900 22" Fanless Railway Panel PC

Preliminary



Features

- Intel® Celeron™ J1900 processor
- 22" LCD panel, 1920 x 1080pixels resolution
- 1000nits high brightness
- EN 50155 certificated for railway
- -25 ~ 55 °C EN 50155 T1 temperature level, EN 45545 compliant
- 24/48/72/110V_{DC} isolation power input
- Fanless design
- Anti-shock and vibration
- Supports Linux Ubuntu 16.04

Introduction

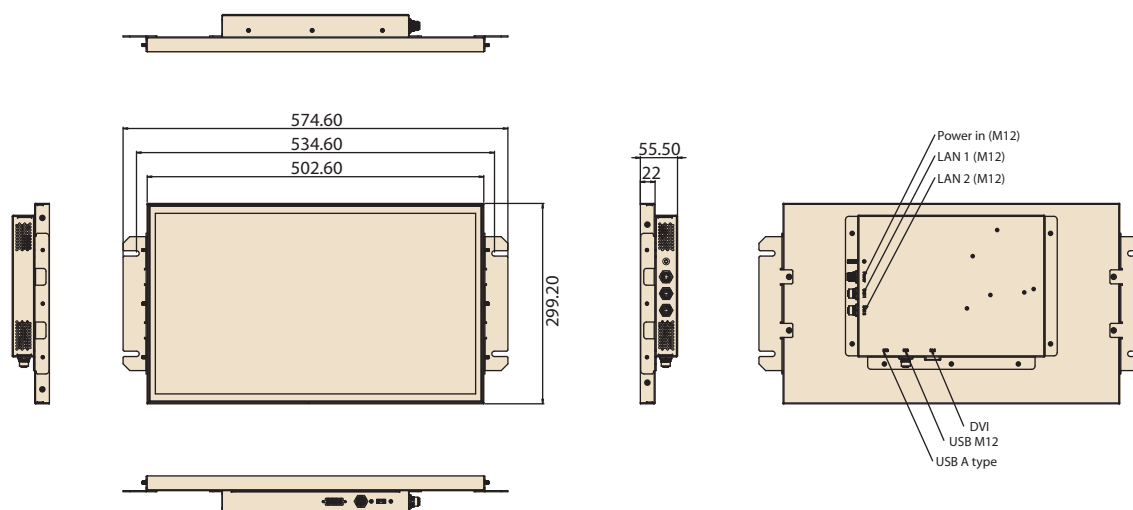
The Advantech ITA-7220 is a fanless Passenger Information System, EN 50155 certified specially for rolling stock applications. It features a 22 inch stretched LCD panel, with brightness 400 cd/m² and contrast ratio 1000:1, ensuring easy readability even in light-insufficient environments. It is powered by Intel® Celeron™ J1900 processor with 8GB 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 (up to 8GB)
Storage	mSATA	1 x mSATA SSD (Default 64GB)
	Chipset	Intel® HD Graphics
Graphics	Frequency	688MHz
	Graphics Engine	DirectX11, OpenGL 4.2, OpenCL 1.2
	Display Type	22" TFT LCD panel
Display	Max. Resolution	1920 x 1080
	Brightness	400 nits
	Contrast Ratio	1000:1
	LAN	1 x 10/100/1000 Base-T Ethernet interface (M12 X-coded)
I/O	USB	1 x USB 2.0 (M12 A-coded 4 pin)
	Video output	1 x DVI-D
	Operating System	Linux 16.04
Power	Connector	4-pole M12 connector
	Input Voltage	24/48/72/110 V _{DC} (±40%)
Environment	Operating Temperature	EN 50155 T1: -25 ~ 55 °C
	Storage Temperature	-40 ~ 85 °C/-40 ~ 185 °F
	Relative Humidity	85% @ 40 °C (non-condensing)
	Shock, Vibration Tolerance	EN 50155
	Ingress Protection	IP-40
Physical Characteristics	Construction	Aluminum/iron enclosure
	Dimensions (W x H x D)	575 x 299 x 56 mm (23 x 12 x 2.2 in)
	Weight	7.0kg
Certifications	Railway	EN 50155, EN 50121, IEC 61373, IEC60571 (EN 45545)
	EMC, Safety	CE/FCC Class A, UL

Dimensions

Unit: mm



Ordering Information

Part Number	Processor	Voltage	DDR3L 4GB	mSATA 64GB	LAN	DVI	USB
ITA-7220-LOA1E	Intel® Celeron J1900 processor Quad-core, 2.00GHz	24 V	Yes	Yes	Yes	Yes	Yes
ITA-7220-M0A1E	Intel® Celeron J1900 processor Quad-core, 2.00GHz	48 V	Yes	Yes	Yes	Yes	Yes
ITA-7220-H0A1E	Intel® Celeron J1900 processor Quad-core, 2.00GHz	72 V	Yes	Yes	Yes	Yes	Yes
ITA-7220-S0A1E	Intel® Celeron J1900 processor Quad-core, 2.00GHz	110 V	Yes	Yes	Yes	Yes	Yes

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