ADLINK
LEADING EDGE COMPUTING

Onboard Passenger Information Display System

ARD-R2150

Datasheet



AUO Display+

EN50155

Features

- 21.5" TFT LCD, 1920 x 1080 resolution (FHD)
- EN50155 compliant for railway
- Sunlight readable & High Brightness: 1500 nits
- Intel Atom® Amston Lake processor with Debian
- Wide range DC 24-110V power input
- EN50155 -25°C - 55°C OT1 level / EN45545-2
- Auto-dimming for readability and eco-friendliness
- Anti-shock and vibration

Specifications

Display	Active Screen Size	21.5" TFT LCD panel
	Resolution	1920 x 1080
	Brightness	1500 nits
	Contrast Ratio	1000:1
	Backlight Lifetime	50,000 hrs
	Viewing Angle (U/D/R/L)	89/89/89/89
	Color	16.7M
	Display Area	476.064 (H) x 267.786 (V) mm

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Specifications

System	Processor	Intel Atom® x7211RE Processor, 2-core, 1.0GHz (up to 3.2GHz), 6W TDP
	Memory	4GB LPDDR
	Storage	32GB eMMC
	Expansion	1x M.2 2242 M-Key socket for SSD
	External I/O	2x M12 D-code Ethernet 10/100 Mbit/s
	Maintenance I/O (Screwed Panel)	1x USB 3.0 Type A 1x USB 3.0 Type C (supports USB 3.0, DP-out) 1x HDMI-in 1x Reset Button
	Sensor	1x Built-in ambient light sensor
Mechanical	Dimensions	524 (W) x 316 (H) x 50 (D) mm ±2 mm
	Weight	7.2kg
	Mounting	Panel mount with threaded inserts on four sides and back cover
	Cooling	Fanless design with passive cooling
	Housing	Metal
	Ingress Protection	IP65 Front
	Glass	3mm enhanced glass, IK08 grade glass Coating options: Anti-glare/Anti-reflection (available upon request)
Operating System	Supported OS	Debian (Windriver eLxr 12) Windows® 11 IoT Enterprise LTSC 2024
Miscellaneous	Power Connector	1x M12 A-code connector
	Power	+24 - 110V DC
	Battery	CR2032 coin cell battery (default)
Environmental	Operating Temperature	-25°C - 55°C
	Storage Temperature	-40°C - 85°C
	Humidity	Operating: 10% to 95% relative humidity (non-condensing) Non-Operating: 5% to 95% relative humidity (non-condensing)
	Standards	EN50155, EN45545-2 Compliant

Ordering Information

ARD-R2150/ASL	Railway onboard 21.5" PIDS with Intel Atom® x7211RE, 2-core, 1500 nits

Optional Accessories

ARD PIDS cable kit	2x M12 D-code Ethernet to RJ45 cable

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