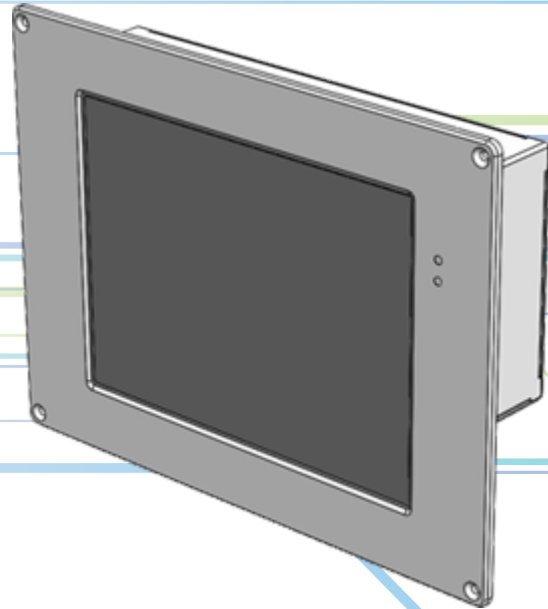


SYS-02550



FEATURES

Display Characteristics

- 12.1" Color TFT display 12.1 “彩色TFT显示屏
- Capacitive touch-screen 电容式触摸屏
- Resolution 1024 x 768 (XGA) 分辨率1024 x 768 (XGA)
- Luminance > 600 cd/m² 亮度> 600cd / m²
- Contrast 700:1 (typical) 对比度700: 1 (典型)
- Viewing angle: -80° to +80° (H); -80° to +30° (V) 视角: -80° 至+ 80° (H); -80° 至+ 30° (V)
- Dimmable LCD back-light 可调光LCD背光

I/O Interfaces

- 2x Fast Ethernet ports 2个快速以太网端口 (或者可选: 2个千兆以太网端口)
- (or optionally: 2x Gigabit Ethernet ports)
- 1x USB 2.0 maintenance port (service panel)
- 4x Digital Inputs; Optical decoupled
- 3x Digital Outputs; Optical decoupled
- Optional: MVB bus
- Optional: 1x RS-232/422/485 Serial port

The SYS-02550 is an On-board Railway Panel PC based on the Intel® Atom™ Bay Trail-I Platform Quad-core microprocessor.

It integrates 32 GB of eMMC memory that can be expanded using the MicroSD card slot available behind the Service panel.

The SYS-02550 integrates a 12.1" Color TFT display with capacitive touch-screen and a resolution up to 1024 x 768 (XGA) with aspect ratio 4:3.

It provides the following I/O interfaces: 2 Fast Ethernet (or optionally: 2 Gigabit Ethernet), 1 USB 2.0 for maintenance, 4 Digital Inputs, and 3 Digital Outputs. MVB connection and an RS-232/422/485 Serial Port are optionally available.

The SYS-02550 has been developed for railway applications: it is EN 50155 and EN 45545 compliant, and it's operating temperature ranges from -25°C to +70°C, +85°C for 10 minutes.

SYS-02550是基于英特尔®的板载铁路平板电脑 Atom™ Bay Trail-I 平台四核微处理器。

它集成了32 GB的eMMC内存, 可以使用该扩展 MicroSD卡插槽位于服务面板后面。

SYS-02550集成了一个12.1“彩色TFT显示屏与电容式触摸屏, 分辨率高达1024 x 768 (XGA) 比例4: 3。

它提供以下I / O接口: 2快速以太网(或可选: 2千兆以太网), 1个用于维护的USB 2.0, 4个数字输入和3个数字输出。 MVB连接和RS-232/422/485串行端口是可选的。

SYS-02550是为铁路应用开发的: 符合EN 50155和EN 45545标准, 它的工作温度范围从-25°C到+ 70°C, + 85°C 10分钟。

Technical Specifications

Specifications		Description
Processor	CPU	Intel® Atom™ Bay Trail-I Platform Quad-core 1.91 GHz
Memory	RAM	4 GB, 1333 MHz (DDR3L-ECC)
Storage	Flash	From 8 GB to 32 GB eMMC
	Other	1x MicroSD card receptacle (available behind the Service Panel; max size 32 GB)
Display	Type	Color TFT display with capacitive touch-screen
	Screen size	12.1"
	Resolution	1024 x 768 (XGA) with aspect ratio 4:3
	Luminance	> 600 cd/m ²
	Contrast	Typical 700:1
	Viewing angle (CR ≥ 10)	-80° to +80° (H); -80° to +30° (V)
	Back-light	Dimmable LCD back-light
LED indicators		1x Power ON LED; Green (available on the Front Panel) 1x Power ON LED; Blue (available behind the Service Panel)
I/O interfaces	LAN	2 x Fast Ethernet, M12 D-Coded 4-pin (or optionally: 2x Gigabit Ethernet)
	Digital I/Os	Optional 4x Digital Inputs; Optical decoupled 3x Digital Outputs; Optical decoupled
	MVB (Optional)	EMD or ESD+
	Serial Port (Optional)	1x RS-232/422/485 Serial port optoisolated
Service Panel inter- faces	LED indicator	1x Power; Blue
	Pushbutton	1x Reset pushbutton
	Expansion memory	1x MicroSD card receptacle
	USB	1x USB 2.0 (for maintenance)
	Console port	1x TTL Serial console port (for maintenance)
Other	RTC	Yes, always coming up with integrity value when reaching the limit of retention time (at least 3 months)
	Watchdog	Yes, programmable via API (Start, Stop and Reset)
	Ignition functionality	Yes
	Temperature sensor	Internal temperature sensor (API available)
	Luminosity sensor	Yes
Power	Input	24 / 72 / 110 Vdc
	Consumption	35 W max
	Grounding	Grounding screw provided on the rear side

(continued on next page...)

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Technical Specifications

Specifications		Description
Environment	Operating Temperature	-25°C to +70°C, +85°C for 10 minutes (EN 50155 Class T3)
	Storage Temperature	-40°C to +85°C
Certifications	Railway applications	EN 50155 - Ambient temperature: Class T3 - Interruptions of voltage supply: Class S2 - Supply change over: Class C1 - Vibration, shock and bump test: EN 61373 Category 1 Class B
	Fire protection	EN 45545-2 HL3
	Electrical safety	EN 60950
	Environmental	RoHS 2
	Ingress	Front: IP65; Rear: IP20
	MTBF	> 100000 hours (GB 25 °C)
Mechanical	Enclosure	310 x 235 x 69 mm (W x H x D)
	Weight	5.5 kg (maximum)
Operating System		Linux. Drivers and APIs support

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