GPC8-215-I510-16-128

Industrial Panel PC



Technical Specifications

Product model	GPC8-215-I510-16-128
Processor (CPU)	Intel Core i5 10th Gen
BIOS	AMI UEFI 64M bit
HDMI	1*HDMI, maximum resolution 4096*2160'a kadar @24Hz
Ethernet	2* Intel i210v LAN Chip Ethernet Port RJ-45 10/100/1000 Mbps
Wi-Fi	Entegre Wi-Fi modul, 2.4G: 574m, 5G: 2400m, 6G: 2400m802.11ax, Bluetooth 5.3
Audio	1* Audio output port
Serial port	4* RS-232 Port / 2* RS-232/RS-422/RS-485
USB	4*USB 3.0
RAM	8GB/16 GB /32 GB /64 GB
Storage (SSD)	128GB/256GB/512GB/1TB/2TB
Operating system	Windows 7/WES 7, Windows 10, Windows 11, Linux, VxWorks & QNX
Power input	Lockable compact 2P Phoenix terminal, 9–36 V DC; with reverse connection, overvoltage, and overcurrent protection
Minimum power input	12V
Display type	21.5" TFT 16:9 Capacitive
Display resolution	1920*1080
Device dimensions	531mm*327mm*68mm
Construction	Aluminum profile body
Mounting method	VESA 100x100, Desktop, Embedded, Wall Mount
Operating temperature	-20~50°C
Humidity	%5~95 (non-condensing)

Screen Specifications

Screen Size	21.5"
Aspect Ratio	16:9
Screen Resolution	1920*1080
Brightness	350 nit
Contrast	800:1
Color	16M
Screen Type	Capacitive
Transmittance	More than 95%
Touch Lifespan	50 million touches
Response Time	< 5 ms
Touchscreen Sensitivity	7 Mohs
IP Rating	Front panel IP65

Enclosure Features and Industrial Protections

Power Input	Terminal Type DC 9–36 V
Operating Temperature	–20–50 °C
Enclosure Material	Aluminum profile housing
Cooling	Fanless design
Mounting	VESA 100x100, Desktop, Embedded, Wall Mount
Dimensions	531 mm × 327 mm × 68 mm
Industrial Electrostatic Discharge (ESD) Protection	6,000 V
Industrial Transient Voltage (Surge) Protection	8,000 V
Industrial Surge Voltage Protection	2,000 V
Other Protection Features	High-voltage protection on power input

Ports and Descriptions

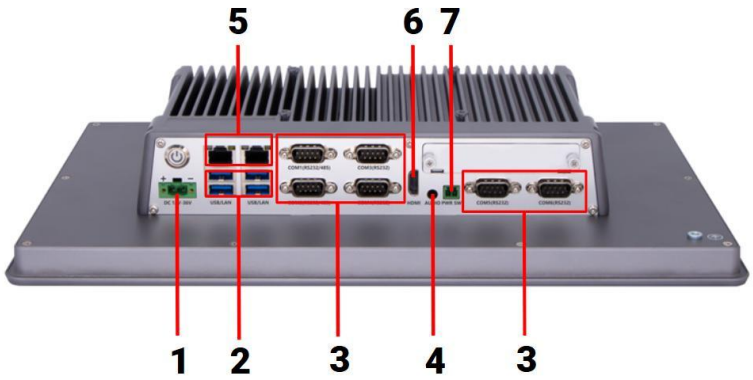
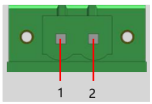


Figure 1 – Rear Panel (the numbers correspond to the port descriptions)

Ports

No	Ports	Number	Feature
1	Power Input	1	DC 9–36 V · Klemens
2	USB 3.0	4	4 × USB 3.0 · Type-A
3	Serial Ports (COM)	6	4 × RS-232 · 2 × RS-232/422/485 · DB9
4	Audio Output	1	1 × audio out
5	Ethernet (LAN)	2	2 × RJ45 · Intel i210-V
6	HDMI	1	HDMI · 4096×2106 @ 24 Hz
7	External Power Switch	1	2 pin · Klemens

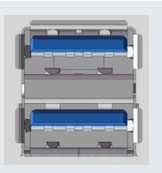
1 · Power socket



Klemens-type DC power input. Connect the positive (+) power supply to pin 1 and ground (GND) to pin 2.

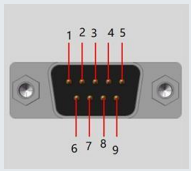
Pin	Description
1	DC 9–36V IN
2	GND

2 · USB 3.0



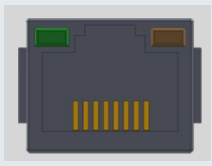
Pin	Description
1	VBUS
2	Data−
3	Data+
4	GND
5	StdA_SSRX−
6	StdA_SSRX+
7	GND_DRAIN
8	StdA_SSTX−
9	StdA_SSTX+

3 · Serial Ports (COM)



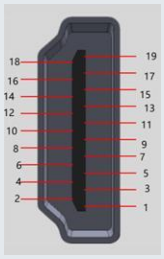
Pin	RS-232	RS-485	RS-422
1	DCD	B−	TX−
2	RXD	A+	TX+
3	TXD	NC	RX+
4	DTR	NC	RX−
5	GND	GND	GND
6	DSR	NC	NC
7	RTS	NC	NC
8	CTS	NC	NC
9	RI	NC	NC

5 · Ethernet (LAN)



Pin	Description
1	TX_D1+
2	TX_D1−
3	RX_D2+
4	BI_D3+
5	BI_D3−
6	RX_D2−
7	BI_D4+
8	BI_D4−

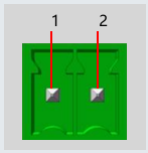
6 · HDMI



HDMI · 4096×2106 @ 24 Hz

Pin	Description	Pin	Description
1	TMDS Data2+	**11**	TMDS Clock Shield
2	TMDS Data2 Shield	**12**	TMDS Clock−
3	TMDS Data2−	**13**	CEC
4	TMDS Data1+	**14**	Reserved (N.C.)
5	TMDS Data1 Shield	**15**	SCL
6	TMDS Data1−	**16**	SDA
7	TMDS Data0+	**17**	DDC/CEC Ground
8	TMDS Data0 Shield	**18**	+5V Power
9	TMDS Data0−	**19**	Hot Plug Detect
10	TMDS Clock+		

7 · External Power Switch



Pin	Description
1	PW+
2	PW−

Dimensions (mm)

