EMP-510 Series

11th Gen Intel® Core™ i5/i3/Celeron®-Based Fanless Embedded Box PC



Features

- 11th Gen Intel® Core™ i5/i3 and Celeron® BGA SoC processor
- DDR4 SODIMM up to 64GB
- FHD/4K/8K up to 4x independent displays
- 2x GbE, 1x COM, 4x USB ports
- M.2 2280 SSD
- Wi-Fi 5/LTE compatibility

Software Support

- Windows 10 IoT Enterprise/LTSC 64-bit

Optional Accessories

- M.2 SSD
  128GB (default)
  256GB
- Wireless Module
  Wi-Fi kit (w/ antenna)
  LTE kit (w/ antenna)
- AC/DC Adapter
  84W for EMP510-i3 and EMP-510-5305E
  120W for EMP-510-i5

Ordering Information

Model	CPU	Memory	Storage
EMP-510-i5	Intel® Core™ i5-1145G7E	1 x 8GB	128GB
EMP-510-i3	Intel® Core™ i3-1115G4E	2 x 4GB	128GB
EMP-510-6305E	Intel® Celeron® 6305E	2 x 4GB	128GB

Distribuída no Brasil pela LRI | vendas@lri.com.br | 51 2129-3000

Specifications

Model Name	EMP-510 Series		
System Core			
Processor	Intel® Core™ i5-1145G7E	Intel® Core™ i3-1115G4E	Intel® Celeron® 6305E
TDP	15W	15W	15W
# of Cores	4	2	2
Base Freq.	1.5 GHz	2.2 GHz	1.8 GHz
Max Turbo Freq.	4.1 GHz	3.9 GHz	-
Memory	DDR4 up to 64GB	DDR4 up to 64GB	DDR4 up to 64GB
I/O Interface			
Display	1x DP 1.4 3x HDMI 2.0	1x DP 1.4 3x HDMI 2.0	1x DP 1.4 3x HDMI 2.0
Ethernet	2x GbE RJ-45		
Serial Ports	1x DB9 COM (RS-232)		
USB	4x USB 3.0		4x USB 3.0
Audio	Line-out, Line-in		
Security	fTPM		
Storage	1x 2280 128GB, 1x 2230 for Wi-Fi/BT (option)		
Mechanical			
Dimensions	211 (W) x 115 (D) x 35 (H) mm		
Weight	2.5 kg		
Mounting	Wall mount(default)/ VESA mount (option)		
Power Supply			
DC Input	12V DC		
Environmental			
Operating Temperature	Standard: 0°C - 50°C / ETT: -20°C to 50°C		
Storage Temperature	-40°C to 85°C (-40°F to 185°F) (excluding storage)		
Humidity	~95% @ 40°C (104°F) (non-condensing)		
Vibration	Operating: 3 Grms, 5-500 Hz, 3 axes (w/ SSD)		
Shock	Operating: 50 Grms, half sine 11ms duration (w/ SSD)		
ESD	Contact ±4KV, Air ±8KV		
EMC	EN61000-6-4/-2, CE, FCC Class B		
Safety	UL/cUL, CB, CCC		

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