

EMP Series

11th Gen Intel® Core™ i5/i3/
 Celeron®-Based Fanless Embedded
 Media Player

Preliminary



Features

- 11th Gen Intel® Core™ i5/i3 and Celeron® BGA SoC processor
- DDR4 SODIMM up to 32GB
- FHD/4K/8K up to 4x independent displays
- 1x GbE (+1), 1x COM, 4x USB ports
- M.2 2280 SSD
- Wi-Fi 5/LTE compatibility

Software Support

- Windows 10 IoT Enterprise CBB/LTSC 64-bit
- Linux Ubuntu 20.04 LTS

Optional Accessories

- M.2 SSD
 - TLC 64GB
 - TLC 128GB
 - TLC 256GB
- Wireless Module
 - Wi-Fi kit (w/ antenna)
 - LTE kit (w/ antenna)
- AC/DC Adapter
 - 84W (EMP-300)
 - 120W (EMP-500)

Ordering Information

Model	CPU	Memory
EMP-501-TGL/M4G	Intel® Core™ i5-1145G7E	1x 4GB
EMP-501-TGL/M8G		1x 8GB
EMP-501-TGL/M16G		1x 16GB
EMP-301-TGL/M4G	Intel® Core™ i3-1115G4E	1x 4GB
EMP-301-TGL/M8G		1x 8GB
EMP-302-TGL/M2G		Intel® Celeron® 6305E
EMP-302-TGL/M4G	1x 4GB	

Specifications

Model Name	EMP-501-TGL	EMP-301-TGL	EMP-302-TGL
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 32 GB	DDR4 up to 32 GB	DDR4 up to 16 GB
I/O Interface			
Display	1x DP 1.4 3x HDMI 2.0	2x HDMI 2.0	2x HDMI 2.0
Ethernet	1x GbE RJ45 (BOM option for +1 GbE)		
Serial Ports	1x DB9 COM (RS-232)		
USB	4x USB 3.0		4x USB 3.0
Audio	Line-out, Line-in		
Storage	1x 2280 SSD, 1x 2230 for Wi-Fi/BT		
Mini PCIe	1x for LTE or AI Engine		
Mechanical			
Dimensions	211 (W) x 115 (D) x 35 (H) mm		
Weight	2.5 kg		
Mounting	Wall mount		
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		

