

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 | | |



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