

0 AMD® Ryzen™ Quad Core Processor-V1605B Based Mini PC with 4 DisplayPort



Features

- CPU: Ryzen™ Embedded V1605B
- Memory: Dual channel SO-DIMM DDR4 (max 32 GB)
- Display: Up to 4 DP displays
- Ethernet: Support dual 1GbE ethernet cards
- Rich I/O Ports: 4xDP, 2xUSB3.0, 6xUSB2.0, 2xLAN, Mic-in, Line-out
- Power: 12V DC input
- Security: TPM 2.0 supported (optional)



Introduction

The new Maxtang Mini PC AIV1605 is based on the AMD Ryzen™ V1605B (quad-core) and provides a complete PC platform with high performance. Coming from the embedded V1000 processor family family, this CPU combines the incredible performance of the pioneering “Zen” architecture and “Vega” GPU in a single chip with thermal design power (TDP) as low as 15W. Four independent 4K+ DP ports are supported in addition to dual-channel DDR4 SO-DIMM memory, dual 1-Gigabit Ethernet controllers, and M.2 expansion for Wi-Fi and SSD modules. The TPM module for added security is also optional. The AIV1605 also has rich interfaces as 6 x USB2.0, 2 x USB3.0, 1 x Mic-in, 1 x Line-out and 2 x LAN, catering to most requirements in the market.

The 4xDP interfaces can support the Eyefinity technology, including tiled display SLS (4x1,3x1,2x1etc..) & mixed Tiled display (2x2 etc...). Thus the AIV1605 is an ideal solution for applications requiring high-resolution and multi-display products, like electronic gaming machines, medical imaging, interactive digital signage, thin clients, or PDS terminals. The AIV1605 can also act as a high speed communications front-end like a mini-server.

I/O Interfaces

Block Diagram

Mounting Bracket

The Maxtang logo is displayed in a large, stylized font. The letters 'M', 'a', and 'g' are white and set against a red background. The letter 't' is red and set against a white background. The logo is partially obscured by a red abstract shape in the bottom left corner of the page.

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