AMD Ryzen™ Embedded V1605B with Radeon™ Vega 8 Graphics

Specifications

CPU Base Freq.: 2.0GHz
CPU Max Freq.: Up to 3.6GHz
# of CPU Cores: 4
# of Threads: 8
Total L2 Cache: 2MB
Total L3 Cache: 4MB
TDP: 12-25W
Junction Temp Range: 0-105°C
Security Processor: Yes

Graphics Specifications

GPU Brand: AMD Radeon™ Vega 8 Graphics
GPU Max: 1100 MHz
GPU CU: 8
 # Displays: 4
Max Resolution (for single display): 4096x2160
Display Interfaces: up to 4x HDMI 2.0b or 4x DP 1.4
HW Video Encode / Decode: up to 4K @ 60Hz

System Memory

Memory Type: DDR4
Memory Controller: Dual Channel

Interfaces

Ethernet: 2x 10GbE
USB: 1x USB 2.0, 1x USB 3.1 Gen1, 4x USB 3.1 Gen2
SATA: 2

PCI Lanes

Low Speed Interfaces: AZ
EMMC
eSPI
GPIO
I2C
I2S
LPC
SD
SMBus
SPI
UART

PCI Lanes: 16L Gen3

Key Features

Supported Technologies
DirectX® 12 Technology
The Vulkan® API
OpenCL®
OpenGL

Foundation

Product Family: AMD Ryzen™ Embedded V-series Processors
Product Line: V-Series V1000 with Radeon™ Vega Graphics
Product Type: SOC
OPN: YE1605C4T4MFB
CPU Type: Zen
Infrastructure: FP5
Last Time Buy: 2028
Recommended for new designs: Yes