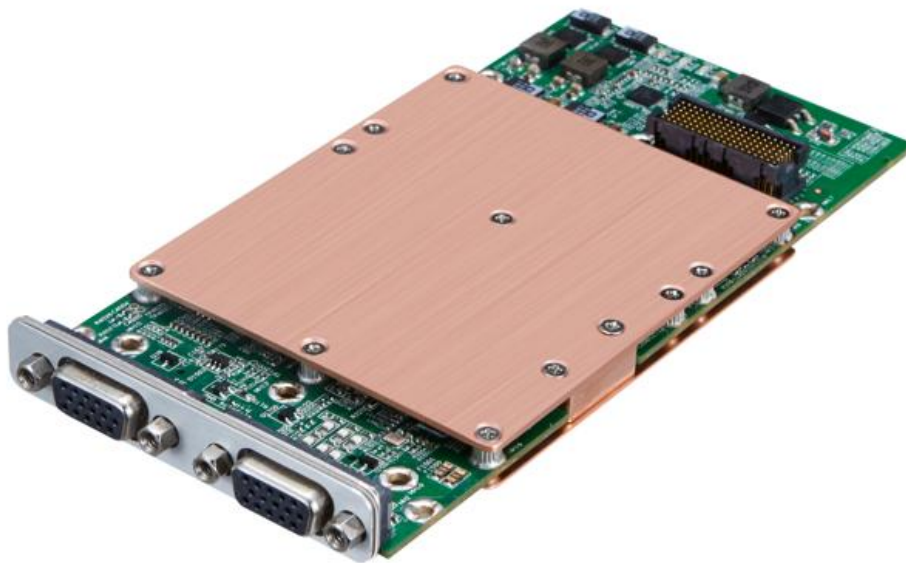


XMC-8860



- Based on AMD Radeon™ E8860 embedded GPU
- 768 / 48 GFLOPS single/double precision peak computing power
- Supports up to 6 independent digital display output interfaces (supports 4K display).
- Onboard 2GB GDDR5 dedicated video memory, 128-bit bus width, 72GB/s
- Supports OpenGL 4.2, OpenCL 1.2, and DirectX 11.1.
- Fanless design
- PCIe 3.0 x8 bus interface

Product Introduction

The XMC-8860 is an XMC display controller card independently developed by Indes Electronics , primarily targeting high-performance embedded graphics processing and GPU general-purpose computing (GPGPU) applications. Based on the AMD Radeon™ E8860 embedded GPU, the XMC-8860 provides a mature solution for harsh environments requiring high-performance graphics and video processing, such as automotive, marine electronics, and avionics .

The XMC-8860 features 2GB of dedicated GDDR5 video memory, supports dual-channel output, and boasts 768/48 GFLOPS of single/double precision peak (600e/4.5Gbps) processing power and 640 independent computing units (shaders). It has a typical power consumption of 37W and can be adjusted to operate in a low-power mode, with a minimum power consumption of approximately 15W. It is particularly suitable for high-definition (1920x1080), 4K ultra-high-definition (3840x2160) displays, high-performance parallel computing, and other applications.

Applications: Image and graphics processing, radar and sonar digital signal processing, command and control, and video surveillance.

Technical parameters

Voltage
VPWR (12V or 5V), 3.3V
Power consumption
15 - 37 watts
Display chip
AMD E8860, 625MHz CPU clock speed / 1125MHz memory frequency 2GB GDDR5 video memory, 128-bit bus width, 72GB/s
Graphical display calculation
640 independent computing units (shaders) 768 / 48 GFLOPS single/double precision peak computing power DirectX 11.1, Shader Model 5.0, OpenGL 4.2, OpenCL 1.2
PCIe interface
PCIe 3.0, Link X8

specification
VITA 42.0, VITA 42.3
size
74mm x 149mm
temperature
Operating temperature: -40℃ to + 65 ℃ Storage temperature: -55℃ to +85℃
Video processing
AMD 4th Generation Video Decoder H.264, VC-1, MPEG-2, MVC, MPEG-4/DivX decoding The VCE engine supports H.264 encoding.
Display Interface
Front out 2XVGA Front output 1x VGA+1 x DVI-D

XMC-8860 block diagram

