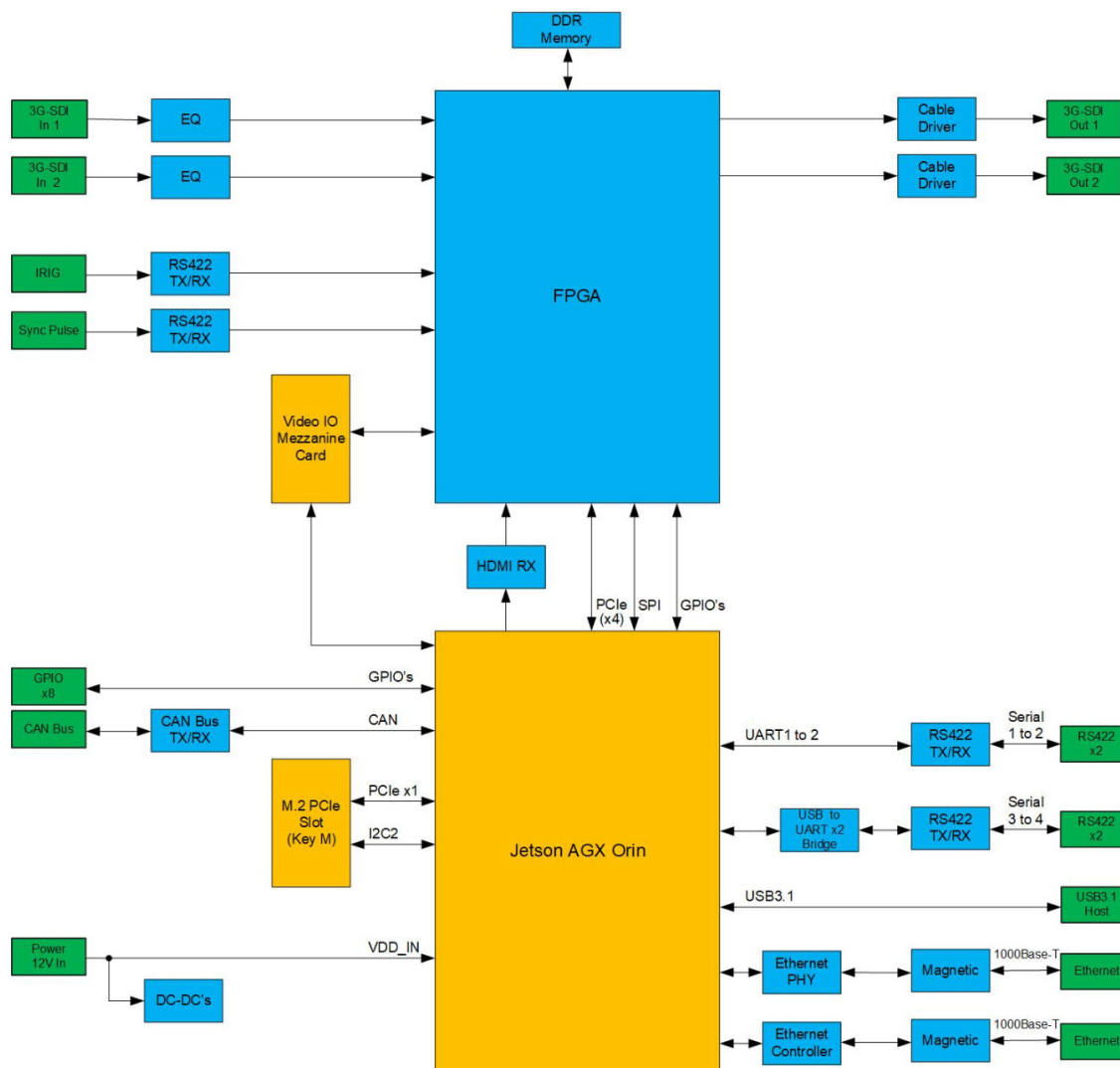


CHARM150AGX

Video Processing Board 150mm x 120mm x 37mm

The Vision4ce CHARM-150AGX is a standalone video processing board for embedded video and image processing applications, which is designed to host the Vision4ce FrameWorkx image processing software which builds upon the field proven DART video tracking software. The CHARM-150AGX is based on a NVIDIA AGX Orin embedded processor which incorporates a multicore ARM processor and a powerful AI/ML accelerator.

The standalone video interfaces are 3G/HD/SD SDI. Optional video interfaces are supported through a video mezzanine which can include PAL/NTSC composite, HD YPrPb component, CameraLink, CoaxPress and additional 3G/HD/SD SDI inputs. The primary host interface is through an Ethernet port. Multiple serial links are also provided. The M.2 slot can be used to add up to an SSD, 2 additional Ethernet ports, or other connections.



Video Inputs

- 2x digital video inputs
SD-SDI, HD-SDI, 3G-SDI
480i60, 576i50, 720p50/59.94/60, 1080p25/29.97/30, 1080i50/59.94/60, 1080p50/59.94/60
- Mezzanine Expansion
Camera Link
CoaXPress
Analogue (PAL/NTSC/YPbPr)

Video Outputs

- 2x digital video outputs
SD-SDI, HD-SDI, 3G-SDI
- Selectable symbology overlay on outputs
- Mezzanine card can also support video outputs.

Data Interfaces

- 1x USB 3.0
- 2x Ethernet - 10/100/1000 Base-T
- 4x Serial RS422
- 1x CAN bus
- 1x IRIG DCLS input
- 8x GPIO (4 inputs, 4 outputs)

Power

- 12VDC +/-5%
- <80W

Expansion

- 1x M.2 slot (Key M)

Mechanical

- Dimensions 150 x 120 x 37mm (5.9" x 4.73" x 1.45")

Environmental

- Temperature - Operating -40C to +71C
- Temperature - Non operating -40C to +85C
- Humidity -5% to 95% non-condensing
- Optional conformal coating available
- Shock - 30g, 11ms

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