

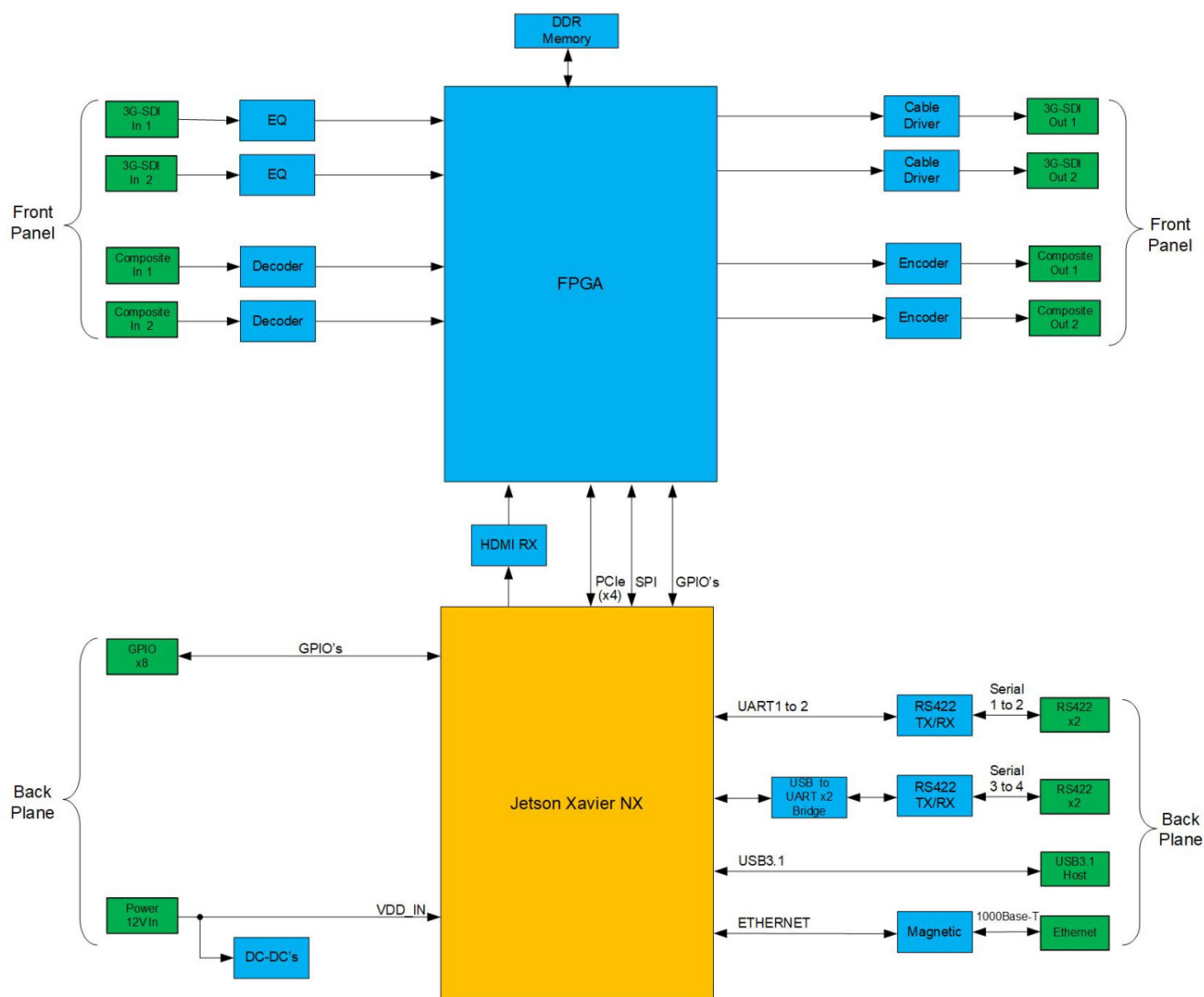


CHARM3U VPX

3U VPX format Video Processing Board

The Vision4ce CHARM-3UVPX is a 3U VPX format 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-3UVPX is based on a NVIDIA Xavier NX embedded processor which incorporates a multicore ARM processor and powerful AI/ML accelerator.

The standard video interfaces are 3G/HD/SD SDI and PAL/NTSC composite. 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

- 2 x digital video inputs
 - o SD-SDI, HD-SDI, 3G-SDI
 - o 480i60, 576i50, 720p50/59.94/60, 1080p25/29.97/30, 1080i50/59.94/60, 1080p50/59.94/60
- 2 x PAL/NTSC composite

Video Outputs

- 2 x digital video outputs
 - o SD-SDI, HD-SDI, 3G-SDI
 - o 480i60, 576i50, 720p50/59.94/60, 1080p25/29.97/30, 1080i50/59.94/60, 1080p50/59.94/60
- 2 x PAL/NTSC composite
- Selectable symbology overlay on outputs

Data Interfaces

- 1 x Ethernet – 10/100/1000 Base-T
- 4 x Serial RS422
- 1 x IRIG DCLS input

Power

- +12VDC +/-5%
- <30W

Mechanical

- 3U VPX, 1" width

Environmental

- Temperature – Operating -25C to +50C – Non-operating -40C to +85C
- Humidity – 5% to 95% non-condensing – Optional conformal coating available
- Shock – 30g, 11ms

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