Product Outline

4-lane SLVS MIPI ports featuring:
• Meticom® MC20901 and MC20902 D-PHY™ Bridges
• MIPI speeds up to 2.5Gb/s (FPGA dependent)

FMC Connectors
• LPC FMC connector, GBTCLK and DP not used
• Voltage translators for the Bridge devices as well as I2C and GPIOs to the MIPI connectors
• Bank associated CC Clock lines associated with each 4-lane LVDS group from FMC host
• Clock strap option accommodates inrevium TB-OP-FMCL adapter bank clock routing

IO Connectors, Facilities
• Two SAMTEC LSHM series right-angle connectors
• Four GPIOs and I2C available on each MIPI port: GPIO and I2C voltage levels independently selectable
• 12V and USER power available on each connector
• USER voltage (common to both MIPI ports) jumper options: 1.5V, 1.8V, 2.5V and 3.3V, all at 800mA total
• Power status LEDs on board

Power Requirements
• 12V and 3.3V both at 500mA max.
• VADJ at 100mA max.

Board Dimensions
• Single width, air-cooled, LPC FMC, VITA 57.1 compatible.

Image Sensor and Display Adapters
• Proprietary connectors are supported by adapters for different image sensors and displays. Standard adapters: Omnivision® OV13855 image sensors and AUO® B101UAN01.7 display.
• Custom adapters available upon request

Features
• Two independently clocked 4-lane SLVS MIPI ports on high density faceplate receptacles, identical pinouts
• Leading low-latency LVDS to SLVS translators
• Variants available
  - 4-lane CSI-2/DSI (Rx/Tx)
  - Dual CSI-2 (Rx/Rx)
  - Dual DSI/DSI (Tx/Tx)
  - Direct (without onboard D-PHYs)
• Compatible with FMC Specification (VITA 57.1)
• Designed for electrical compatibility with inrevium TB-7V-2000T-LSI (via TB-OP-FMCL adapter), Xilinx KC705, VC707, VC709, and KCU105 (UltraScale™)
• Up to 1Gb/s per MIPI lane using HR I/Os in DDR mode (Xilinx® 7-series)
Sales and Support
For additional information, questions or request for quotation visit: www.fidus.com

Customize your TB-FMCL-MIPI (-2CSI, -2DSI, DIRECT)
Adapter PNs: TB-OV13850-ADAPTER, TB-AUO101-ADAPTER

Speak with our Design Services Group on how to accelerate your custom design: design@fidus.com

About Fidus
Fidus Systems, founded in 2001, specializes in leading-edge electronic product development with offices in Ottawa and Waterloo Ontario, and San Jose, California. Our hardware, software, FPGA and signal integrity teams architect, design and deliver next-generation products for clients in emerging technology markets. We build long-term relationships by consistently exceeding expectations.

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