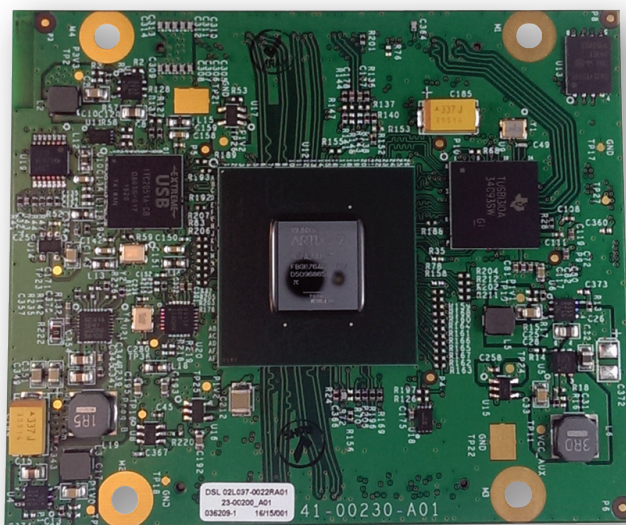


DisplayPort 1.2a and USB 3.1 Gen 1 MV63100 Core Series

Embedded DisplayPort and USB 3.0, 5 Gbps Extender Modules

The DisplayPort 1.2a and USB 3.1 Gen 1 MV63100 Core Series of extenders offer OEM developers the world's most reliable and advanced KVM extension technology in an easily integratable modular form factor. These daughterboard modules extend DisplayPort 1.2a (up to 4096x2160@60Hz) and USB 3.1 Gen 1 device operation up to 200m.

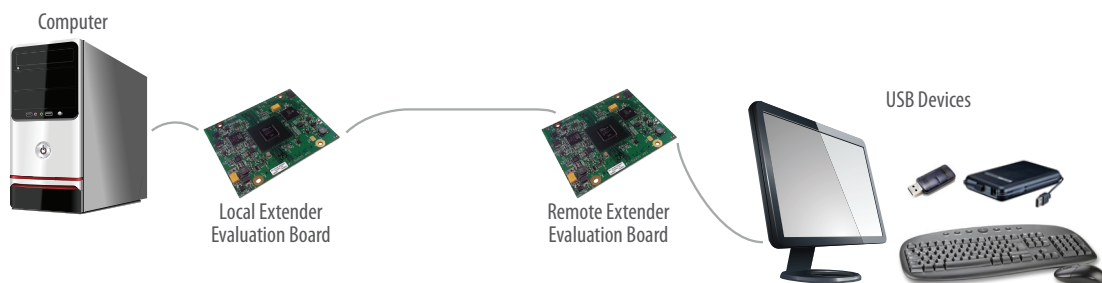


Features

- DisplayPort 1.2a
- Resolutions up to 4096x2160 @60Hz
- YCbCr 4:4:4 RGB 10 Bit Colour
- DisplayPort Embedded Audio Support
- USB 3.1 Gen 1, 5 Gbps Data Rate
- Supports all USB 3.0, 2.0, 1.1 Devices
- Bidirectional RS232
- Single Cable, CAT X (100m) or Fiber (200m)
- 100/1000 Ethernet Channel
- Point-to-Point Connection
- I²C Master or Slave Host Interface
- Device Class Filtering

Applications

- Medical Devices
- Interactive Video Matrices
- KVM Extension
- Networked Educational Kiosks



Up to 100m between devices over CAT 6a (or better) cabling and up to 200m with fiber optic cabling

4664 Lougheed Hwy.
Suite 221
Burnaby, BC,
V5C 5T5, Canada

www.icron.com
+1 604 638 3920

Specifications subject to
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DisplayPort 1.2a and USB 3.1 Gen 1 MV63100 Core Series

FORM FACTOR	
PCB Dimensions:	2.8" x 3.3" (71mm x 85mm)
Connection:	Dual Connector
	Hirose FX10A-120P/12-SV1(91)
	Hirose FX10A-140P/12-SV1(91)
Mounting Holes:	4x 4.0mm (+/-0.10mm)

POWER	
Power Supply:	5V Up to 7W

USB SUPPORT	
USB Speeds:	SuperSpeed 5 Gbps, High-Speed, Full-Speed, Low-Speed
Max Throughput:	Up to 5 Gbps
Device Compatibility:	All Device Types and Hubs
Host Compatibility:	OCHI, UHCI, EHCI, xHCI

CONNECTIVITY	
Link Interface:	XAUI or RXAUI
Ethernet Channel:	IEEE 802.3-2000 RGMII
USB:	USB 3.1 Gen 1
RS232:	Up to 115200 Baud
DisplayPort:	DP 1.1 or 1.2a Interface
Audio:	8.1 Surround Sound capable

ENVIRONMENTAL	
Temperature:	0-40 °C Operating, -20 to 70 °C Storage
Humidity:	20-80% Operating, 10-90% Storage Relative Humidity Non-Condensing

DISTANCE	
CAT X:	100m over CAT 6a
MultiMode Fiber:	200m over OM3
Single Mode Fiber:	200m

VIDEO RESOLUTION SUPPORT	
640 x 480 @ 60Hz	1920 x 1200 @ 60Hz
800 x 600 @ 60Hz	2560 x 1440 @ 60Hz
1024 x 768 @ 60Hz	2560 x 1600 @ 60Hz
1280 x 720 @ 60Hz	3840 x 1080 @ 60Hz
1280 x 768 @ 60Hz	3840 x 2160 @ 60Hz
1280 x 1024 @ 60Hz	4096 x 2160 @ 60Hz
1920 x 1080 @ 60Hz	

SUPPORT	
Warranty:	2-years

