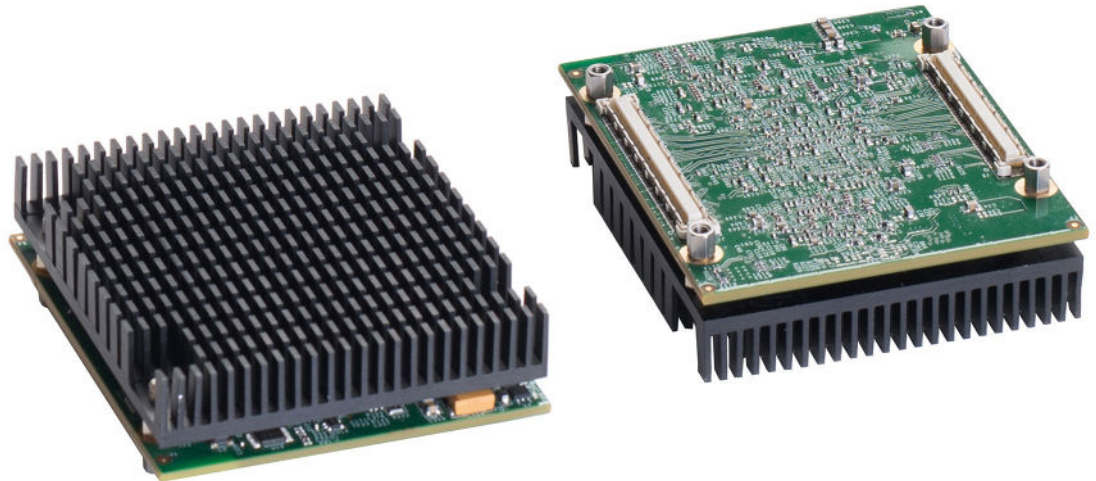


USB 3-2-1 Raven™ 3100 Core

Embedded USB 3.1 Extender Module

The USB 3-2-1 Raven 3100 Core extender module offers OEM developers the world's most reliable and advanced USB 3.1 Gen 1 extension technology in an integratable module form factor.

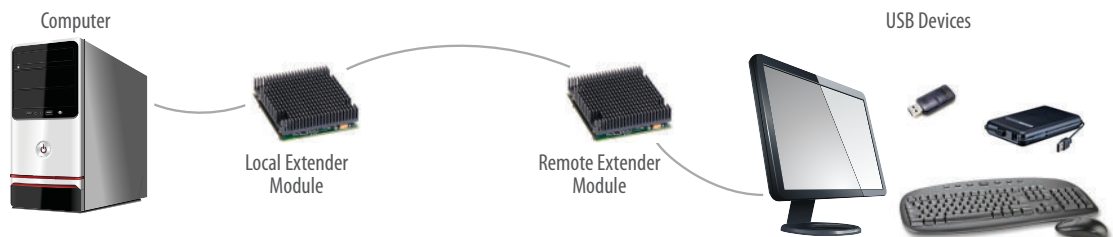


Summary of Features

- USB 3.1 Gen 1 data rate up to 5Gbps
- Supports all USB 3.1, 2.0, 1.1 devices simultaneously at full bandwidth
- 100/1000 MII/GMII side channel
- Bidirectional RS232 up to 115200 baud
- Single cable, CAT 6a/7 (100m) or fiber (200m)
- Point-to-point connection over dedicated cable
- I²C master or slave host interface

Applications

- Medical Devices
- Industrial Devices
- KVM Extension
- Conferencing Cameras



Up to 100m with CAT 6a/7 cabling and up to 200m with fiber optic cabling

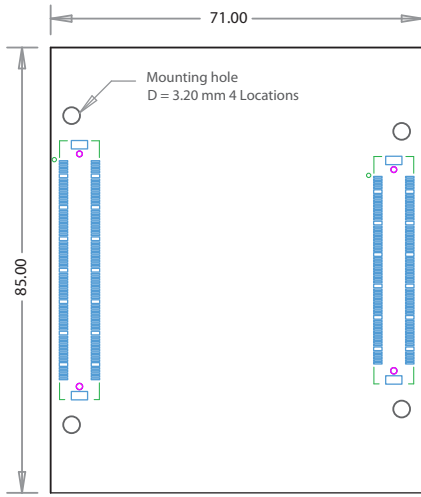
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Specifications subject to
change without notification.
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Icron Technologies Corp.
Now Part of Maxim Integrated
90-01418-A03

USB 3-2-1 Raven 3100 Core Specifications

PCBA Dimensions



FORM FACTOR	
Dimensions/Weight:	71.0mm x 85.0mm x 24.3mm (2.80" x 3.35" x 0.96"); 150g (0.33 lbs.)
Connection:	Dual Connector
	Hirose FX10A-120P/12-SV1(91) and Hirose FX10A-140P/12-SV1(91)
Mounting Holes:	4x 3.20mm (+/-0.10mm)
POWER	
Requirements:	5V up to 5W
USB SUPPORT	
USB Speeds:	SuperSpeed 5 Gbps, High-Speed, Full-Speed, Low-Speed
Device Compatibility:	All Device Types and Classes (Control, Interrupt, Isochronous and Bulk)
Host Compatibility:	OHCI, UHCI, EHCI, xHCI
CONNECTIVITY	
Link Interface:	RXAUI or SFI
Ethernet Channel:	IEEE 802.3-2000 MII/GMII
USB:	USB 3.1 Gen 1, backwards compatible to USB 2.0 and 1.1
RS232:	Up to 115200 Baud
ENVIRONMENTAL	
Temperature:	0°C – 50°C (32°F – 122°F) Operating, -20°C – 70°C (-4°F – 158°F) Storage
Humidity:	20-80% Operating, 10-90% Storage Relative Humidity Non-Condensing
SUPPORT	
Warranty:	2 years

Ordering Information

The USB 3-2-1 Raven 3100 Core Dev Kit comes with two matching Link Interface Modules, two power cords and includes a 2-year warranty. Additional accessories or replacement items are available for purchase. For more information, email IcronSales@MaximIntegrated.com or call +1 604 638 3920.

PART #	NAME	DESCRIPTION
Core Module		
02-00143	USB 3-2-1 Raven 3100 Core Extender Module	USB 3-2-1 Raven Extender Core daughterboard for SFI and RXAUI modes over Fiber Optics or CAT 6a/7
Developer Kit		
00-00445	USB 3-2-1 Raven 3100 Core Developer's Kit	Base Developer Kit for USB 3-2-1 Raven 3100 Core Modules Includes: 1 Raven 3100 Core Series local extender evaluation motherboard, 1 Raven 3100 core series remote extender evaluation motherboard, 2 Raven 3100 core extender modules, 2 international power supplies, 1 USB 3 A to B cable, 2 USB Micro USB programming cables, 1 USB Stick with documentation and instructions. Requires: 2 matching link interface cards and power cords.
Select 2 Matching Link Interface Modules		
02-00160	Link Interface Module: SFI-MMF	Modular Development for Evaluating SFI Interface with Multimode Fiber Transceiver
02-00161	Link Interface Module: RXAUI CATX AQR	Modular Development for Evaluating the supported RXAUI Interface with Aquantia Chipset
Select 2 Power Cords		
21-00115	NA Power Cord	IEC320-C7/C8 2-pin Power Cord for North America
21-00116	EU Power Cord	IEC320-C7/C8 2-pin Power Cord for Europe
21-00117	UK Power Cord	IEC320-C7/C8 2-pin Power Cord for United Kingdom
21-00118	AU Power Cord	IEC320-C7/C8 2-pin Power Cord for Australia
21-00109	JP Power Cord	IEC320-C7/C8 2-pin Power Cord for Japan