

Product Summary

The MCCI® USB 3.0 Connection Exerciser Model 2101 automatically connects and disconnects a USB2 or USB3 host and device under push-button or software control. Connections can be single-stepped or repeated. The manual modes are useful for debugging attach/detach scenarios. QA teams find the automatic repeat modes useful for regression tests.

It's an ideal tool for finding and debugging connect/disconnect bugs in host drivers and devices.

Features:

- Top-panel buttons to quickly connect, disconnect, and enter automatic cycle mode. Nine LEDs show current status.
- Front-panel USB3 standard receptacles attach to your USB2 or USB3 Host and Device Under Test. Compatible with Low, Full, High, and SuperSpeed.
- Back-panel USB port optionally connects to a PC. MCCI includes a command-line tool, this can also be integrated into a larger test system. No special drivers needed, this is a HID device.
- All USB data paths are impedance-controlled and low-loss through 7Ghz relays, which are transparent when in the Connected state. When disconnected, the ground connection is unbroken.
- When connecting, the VBUS and signal connections are timed to mimic the connection order of a physical cable. Timings can be controlled down to 10ms.
- Unit power is from included power supply or optionally from Control PC VBUS. VBUS to DUT is configurable for flow-through or buffered operation. Max DUT current is 900ma.
- Supports testing SuperSpeed, high speed, full speed and low speed devices.

The complete kit includes the following:

- One MCCI USB 3.0 Connection Exerciser Model 2101, with a durable enclosure measuring 4.5" x 3" x 1".
- One 100-240VAC 50/60hz to 5VDC 2.5A power supply (World Plugs)
- One USB 2.0 "Standard-A to Standard-B" USB cable (4 feet) for Control PC connection
- Two USB 3.0 "Standard-A to Standard-B" USB cables (1 foot) for HUT connection
- MCCI Connection Exerciser Quick Start Guide



Specifications

Mechanical	Size H x W x D	111.25 x 75 x 25.2 mm (4.38 x 2.95 x .99")
	Weight	9 oz
Electrical	Power dissipation (all relays on)	1.75 W
	Max DUT VBUS current switch (VBUS pass-thru mode)	900 mA
	Max DUT VBUS current	900 mA
Connectors	to HUT (on case front)	USB 3.0 Std "B"
	to DUT (on case front)	USB 3.0 Std "A"
	DC Input (on case back)	2.1 mm round, center positive
	to Control PC (on case back)	USB 2.0 Std "B"
LED Indicators	VBUS IN (on case front)	On when HUT VBUS is detected
	Connect (on case front)	On when HUT is Connected to DUT
	VBUS OUT (on case front)	On when DUT VBUS is enabled
	Main Power (on case back)	On when Exerciser is fully powered
	PC Link (on case back)	On when Control PC has enumerated Exerciser
	Soft LEDs 1 thru 4 (on case top)	Used by Exerciser FW for various functions (see User Manual)
Mode Buttons	Momentary soft switches 1 thru 4 (on case top)	Used by Exerciser FW for various functions (see User Manual)
Power Supply	AC supply Input	100 to 240 V AC; 50 to 60 Hz
	DC supply Output	5 V DC, 2.5 A max
Cables	Control PC	4 foot STD "A" to USB 2.0 STD "B"
	USB 3.0 Patch Cables (for use from HUT to 2101 or 2101 to DUT).	1 foot STD "A" to USB 3.0 STD "B" <i>Although the Exerciser supports low speed, full speed and high speed, the cables shipped have USB 3.0 extended "B" connectors, and so will only mate with USB 3.0 peripherals that use the USB 3.0 STD "B" connector. Customers may use standard USB 2.0 cables or adapter cables (not included) for connecting to non-SuperSpeed devices, or for connecting with products using the micro-B or mini-B connector.</i>

ORDERING INSTRUCTIONS

STEP 1: Calculate order total

Item	Price (US Dollars)	Quantity	Total US\$
MCCI Connection Exerciser Model 2101	\$495 per unit		
Shipping (You can use your own courier or have MCCI arrange this)	<input type="checkbox"/> \$0 (Using your own courier) <input type="checkbox"/> \$100 per unit (flat charge)		
Tax: For shipments to the US states of NY, TX, and CA, please add appropriate local taxes, or provide appropriate exemption documentation.			
		Total	

STEP 2: Provide the following information via email to sales@mcci.com:

- Order totals from Step 1
- Shipping information

Company Name:	
Contact Person:	
Address:	
Phone number:	
Email:	
(If using your own courier)	Preferred Courier Name: (Inside US) Regular Account #: (Outside US) Import Account #:



If shipping internationally, please be sure to provide the Import Account #. Most courier services use a different account for import/export compared to domestic shipment. If you don't provide correct shipping info, it will delay shipment.

- ❑ STEP 3: Provide payment information. Payment must be made prior to shipment. We accept Amex, Visa, MasterCard, and company checks.

- To pay by credit card, please provide the following information:

Cardholder Name:	
Card Number:	
Expiration Date:	CCV:

- To order by fax, fax both form pages (steps 1 through 3) to +1 (607) 277-6844
- To order by phone, please call +1 (607) 277-1029, extension 103 (MCCI Ithaca Office)



DO NOT SEND CREDIT CARD INFORMATION BY EMAIL (Privacy of information sent via email cannot be guaranteed)

- To pay by check or wire transfer, please provide the information from steps 1 and 2 via email to sales@mcci.com. Remittances should be sent to:
MCCI Corporation / Attention Accounts Receivable
3520 Krums Corners Road
Ithaca, NY 14850
USA

General Terms and Conditions

The following terms and conditions apply.

1. Prices and terms are subject to change without notice.
2. All prices quoted in US dollars, non-refundable, net after any deductions at source for shipping, insurance, taxes or customs. Payments shall be made by credit card or company check. Payments are due with order.
3. If shipped using your own courier: Incoterms® 2010 EXW Ithaca, NY, USA. Please provide account information for preferred import shipper or arrange with MCCI for pick-up.
4. If shipped using a flat shipping charge: Incoterms 2010 CPT to Customer Shipping Location, via air freight
5. Product shipment within 30 days of receipt of payment.
6. Warranty: 45 days from date of shipment origination.
7. Orders cancelled prior to shipment are subject to a 5% cancellation fee. Unopened returned products are subject to a 15% restocking fee. Customized items are not eligible for return or refund once PO is received and accepted by MCCI. Opened items are not eligible for return or refund.
8. Customer agrees to indemnify and hold harmless MCCI from and against any and all claims, losses, damages, cost or expenses (including but not limited to attorney's fees) suffered or incurred as the result of or in connection with the use of this device.
9. MCCI retains ownership of all intellectual property.
10. These terms and conditions shall form the sole and exclusive terms of this quotation, and will not be superseded by terms and conditions printed on the Customer's purchase order, or any other terms and conditions, without the express written approval of MCCI
11. Governing Laws: State of New York