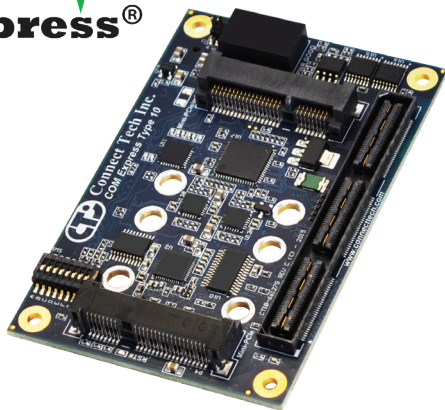




COM Express® Type 10 carrier changes the design process completely! The carrier provides high density board to board connectors for use with either off-the-shelf or custom breakout boards, dramatically reducing the need for cabling.

All of the complex circuitry is already on the carrier, such as Gigabit Ethernet, USB 3.0, Serial, and Display. The Stacking Carrier provides expansion via Mini PCI Express which can be used for either Mini PCI Express peripherals or mSATA.



Both a SATA Link and a PCIe x1 Link with clock are provided to the breakout board connector, allowing for breakout board expansion to meet your design needs.

FEATURES

- ✓ 84mm x 55mm (3.307" x 2.165")
- ✓ Expansion via Mini PCI Express
- ✓ Extended Temperature Range: -40°C to +85°C (-40°F to +185°F)
- ✓ 1x High Density Connector for Breakout Board Utilization
- ✓ Use with Off-the-Shelf or Custom designed breakout boards

SPECIFICATIONS

Compatibility	COM Express Type 10 Module PICMG COM Express COM.0 R2.1	Dimensions	84mm x 55mm (3.307" x 2.165")
Mini-PCIe/mSATA	<ul style="list-style-type: none"> • 1x Mini-PCIe/mSATA Half or Full Size (Use of Full Size Removes Secondary Mini-PCIe Slot) • 1x Mini-PCIe Half Size with SIM Card Slot 	SATA	1x SATA Link*
Display	<ul style="list-style-type: none"> • 1x DDI Link* • 1x LVDS* 	Serial	2x RS-232/RS485 Links*
USB	<ul style="list-style-type: none"> • 2x USB 3.0 Links* • 4x USB 2.0 Links* • 2x USB 2.0 (Mini-PCIe) 	Ethernet	2x Gigabit Ethernet (10/100/1000) Links*
Audio	HD Audio Link*: 1x Input, 1x Output	SD Card	microSD Card Slot (Uses GPIO Pins)
GPIO	4x GPI, 4x GPO (Used by microSD) Links*	PCI Express	1x PCIe 1x Link with PCIe CLK*
Power	Single wide input range +8V to +14V (may be module dependent)	Serial	2x RS-232/422/485 hardware selectable ports
Misc	<ul style="list-style-type: none"> • 1x SMB Link* • 1x FAN Link* • 1x I2C Link* 	Power Requirements	<ul style="list-style-type: none"> • +7.5V to +14V Input Range • +12V Nominal Input
Operating Temperature	-40°C to 85°C (-40°F to 185°F)		

* Indicates that Feature is connected to High Density Connector for Breakout Board Utilization

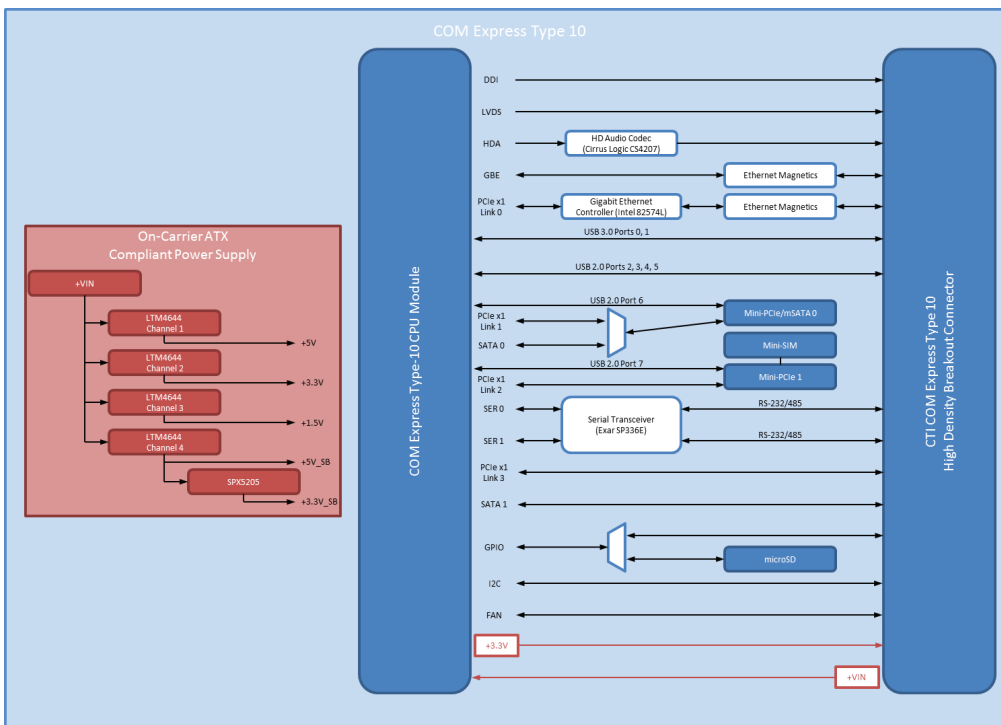


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SPECIFICATIONS

Breakout Board	COM Express Type 10 Maximized Breakout Board (XBG101)	COM Express Type 10 Compact Breakout Board (XBG102)
Compatibility	CCG030	CCG030
Dimensions	147.5mm x 93.1mm (5.807" x 3.665")	84mm x 62.54mm (3.307" x 2.462")
Mini-PCIe/mSATA	<ul style="list-style-type: none"> 1x Mini-PCIe Full Size (No USB) 1x mSATA Full Size 	1x Mini-PCIe/mSATA Full Size
SATA	-	-
Display	<ul style="list-style-type: none"> 1x Display Port 1x LVDS 	1x HDMI
Serial	2x RS-232/RS-485 Header	2x RS-232/RS-485 Header
USB	<ul style="list-style-type: none"> 2x USB 3.0 4x USB 2.0 	<ul style="list-style-type: none"> 2x USB 3.0 2x USB 2.0 Header
Ethernet	2x RJ-45 Gigabit Ethernet	2x RJ-45 Gigabit Ethernet
Audio	HD Audio 3.5mm Stereo Jack with Mic	HD Audio Header
GPIO	<ul style="list-style-type: none"> 4x GPI Test Points 4x GPO Test Points 	-
Power Requirements	+12V Input	+12V Input
Operating Temperature	40°C to 85°C (-40°F to 185°F)	40°C to 85°C (-40°F to 185°F)

BLOCK DIAGRAM



Pictured: XBG101

