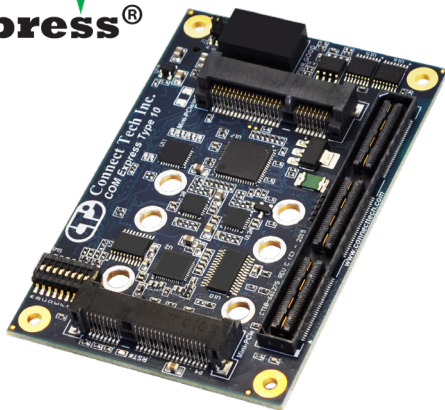




COM Express® Type 10 carrier changes the design process completely! The carrier provides high density board to board connectors for use with either off-the-shelf or custom breakout boards, dramatically reducing the need for cabling.

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

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

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

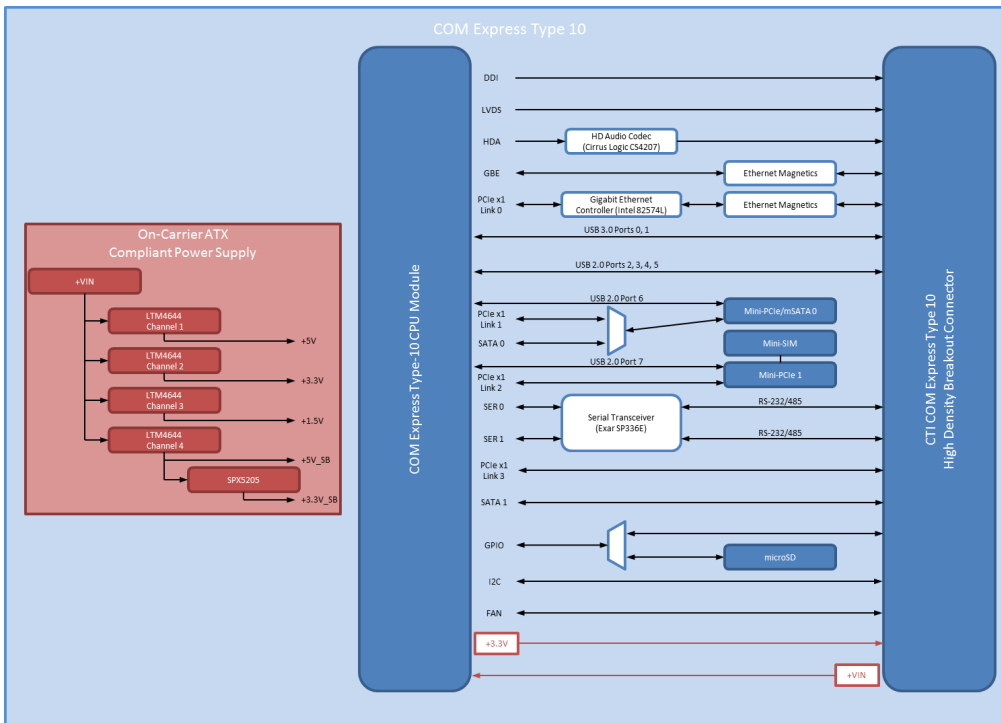


Specifications subject to change without notice. ©2020 Connect Tech Inc. All trademarks are property of their respective holder. CTIX-00443(0.01) - 2020-07-14

## 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"> <li>1x Mini-PCIe Full Size (No USB)</li> <li>1x mSATA Full Size</li> </ul>	1x Mini-PCIe/mSATA Full Size
SATA	-	-
Display	<ul style="list-style-type: none"> <li>1x Display Port</li> <li>1x LVDS</li> </ul>	1x HDMI
Serial	2x RS-232/RS-485 Header	2x RS-232/RS-485 Header
USB	<ul style="list-style-type: none"> <li>2x USB 3.0</li> <li>4x USB 2.0</li> </ul>	<ul style="list-style-type: none"> <li>2x USB 3.0</li> <li>2x USB 2.0 Header</li> </ul>
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"> <li>4x GPI Test Points</li> <li>4x GPO Test Points</li> </ul>	-
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

