



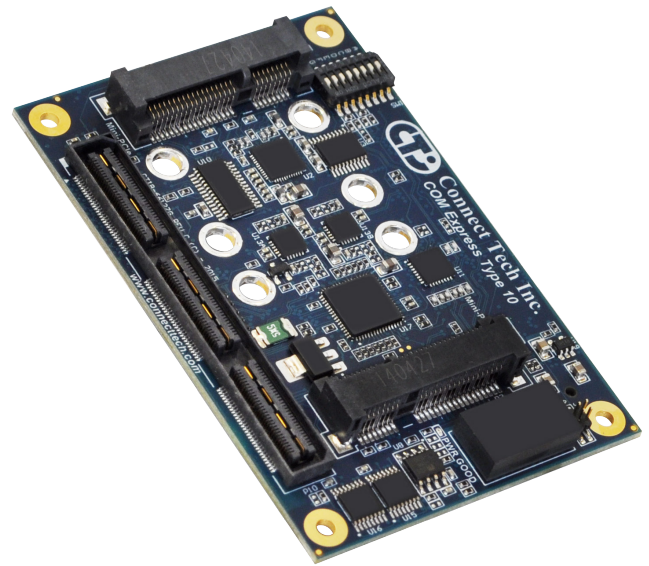
COM Express Type 10

Connect Tech's COM Express Type 10 carrier, model CCG030, changes the design process completely! The CCG030 provides high density board to board connectors for use with either off-the-shelf or custom breakout boards, dramatically reducing the need for cabling.

With all of the complex circuitry already on the carrier, such as Gigabit Ethernet, USB 3.0, Serial, and Display, the design of a unique breakout board can be done with minimal effort using Connect Tech's design services or by the user.

CCG030 provides expansion via Mini PCI Express which can be used for either Mini PCI Express peripherals or mSATA. In addition, 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.

Product Name: COM Express Type 10
Part Number: CCG030



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	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	1x DDI Link* 1x LVDS*
Serial	2x RS-232/RS485 Links*
USB	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*
Misc.	1x SMB Link* 1x FAN Link* 1x I2C Link*
Power Requirements	+7.5V to +14V Input Range +12V Nominal Input
Operating Temperature	-40°C to 85°C (-40°F to 185°F)

FEATURES

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

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

COM Express Type 10

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	1x Mini-PCIe Full Size (No USB) 1x mSATA Full Size	1x Mini-PCIe/mSATA Full Size
SATA	-	-
Display	1x Display Port 1x LVDS	1x HDMI
Serial	2x RS-232/RS-485 Header	2x RS-232/RS-485 Header
USB	2x USB 3.0 4x USB 2.0	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	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)

RoHS

Specifications subject to change without notice.
©2016, Connect Tech Inc. All trademarks are property of their respective holder.

