



COM Express® Type 6 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.

Access to the COM Express PCI Express x16 Bus enables high data throughput or bifurcation design options. In addition, both unused SATA Links and PCIe x1 Links with clocks are provided to the breakout board. All this allows for breakout board expansion to meet your design needs.



Use with off the shelf breakout boards, or easily design a custom breakout board to meet your needs.

FEATURES

- ✓ 125mm x 95mm (4.92" x 3.74")
- ✓ 4x GbE Ports with On-Board Magnetics
- ✓ Use with Off-the-Shelf or Custom designed breakout boards
- ✓ 3x Mini PCIe Modules
- ✓ PCI Express x16 Bus Design Access
- ✓ Extended Temperature Range: -40°C to +85°C (-40°F to +185°F)

SPECIFICATIONS

Compatibility	COM Express Type 6 Module PICMG COM Express COM.0 R2.1	Dimensions	125mm x 95mm (4.921" x 3.740")
Mini-PCIe/mSATA	3x Mini-PCIe/mSATA Full Size	SATA	4x SATA Link*
Display	<ul style="list-style-type: none"> • 2x DDI Link* • 1x VGA • 1x LVDS 	Serial	2x RS-232/RS-485 Links*
USB	<ul style="list-style-type: none"> • 4x USB 3.0 Links* • 4x USB 2.0 Links* • 3x USB 2.0 (Mini-PCIe) 	Ethernet	4x Gigabit Ethernet (10/100/1000) Links*
Audio	HD Audio Link*: 1x Input, 1x Output	SD Card	microSD Card Slot (Uses GPIO Pins)
PCI Express	<ul style="list-style-type: none"> • 5x PCIe x1 Link with PCIe CLK* • 1x PCIe x16 Bus with 4x PCIe CLK allowing for PCIe Bifurcation 	Misc.	<ul style="list-style-type: none"> • 1x SMB Link • 1x FAN Link • 1x I2C Link
Power Requirements	+12V 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



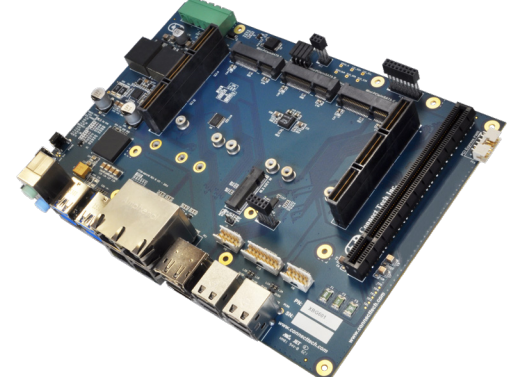
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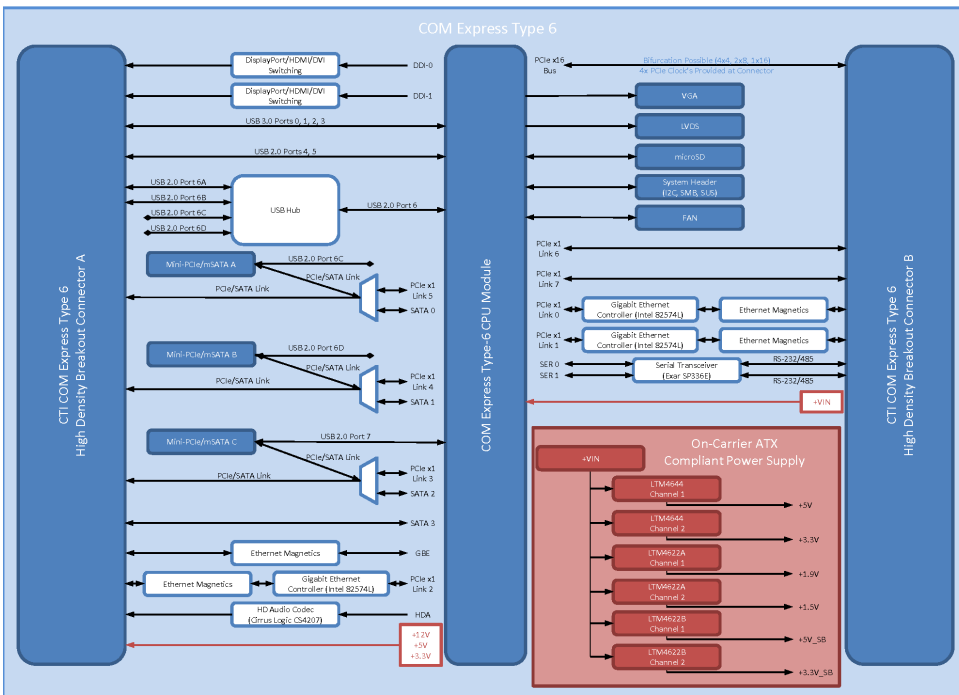
SPECIFICATIONS

Breakout Board	COM Express Type 6 Maximized Breakout Board (XBG601)
Compatibility	CCG060
Dimensions	185mm x 137.5mm (7.284" x 5.414")
Mini-PCIe/mSATA	3x Mini-PCIe/mSATA Full Size (No USB)
M.2	1x M.2 Key B (PCI Express or SATA)
Display	<ul style="list-style-type: none"> • 1x DisplayPort • 1x HDMI • 1x VGA
Serial	2x RS-232/RS-485
USB	<ul style="list-style-type: none"> • 4x USB 3.0 Links • 4x USB 2.0 Links
Ethernet	4x RJ-45 Gigabit Ethernet (10/100/1000)
Audio	HD Audio 3.5mm Stereo Jack
PCI Express	1x PCI Express x16 Card Slot with Additional +12.0V Power
Misc.	<ul style="list-style-type: none"> • 1x FAN Header • 1x RESET Button • 1x PWR Button
Power Requirements	+12V to +48V DC Input
RTC Battery	External Battery Header
Operating Temperature	40°C to 85°C (-40°F to 185°F)

Pictured: XBG601



BLOCK DIAGRAM



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