

### Connect Tech's COM Express® Type 6 PMC/XMC Ultra Lite Carrier Board is a compact, feature-rich carrier.

This carrier board offers dual PMC/XMC and MiniPCIe expansion, features USB 3.0 and DisplayPort, and supports the latest Intel® processor sets.



Ideal for military and aerospace applications, and accepts a wide input voltage range from a regulated or un-regulated source of +12V to +48V DC.

### FEATURES

- ✓ Ruggedized, locking pin header connectors
- ✓ COM Express Type 6 compatibility
- ✓ Supports latest Intel® processor sets
- ✓ Dual PMC/XMC & Mini-PCIe Expansion
- ✓ Small form factor (170mm x 165mm)
- ✓ Extended Temperature Range: -40°C to +85°C (-40°F to +185°F)

### SPECIFICATIONS

<b>Dimensions</b>	170mm x 165mm (6.69" x 6.50")	<b>COM Express</b>	<ul style="list-style-type: none"> <li>• Accepts Type-6</li> <li>• Up to 4th Gen Intel Core i7 (Haswell)</li> </ul>
<b>Peripheral Connector Type</b>	Rugged Locking 2mm Pitch Connectors	<b>MiniPCIe Expansion</b>	2 slots (with PCIe, USB and SATA connections)
<b>PMC Expansion</b>	2 PMC (PCI) for I/O expansion	<b>XMC Expansion</b>	2 x8 XMC (PCIe) for I/O expansion
<b>DisplayPort++</b>	2 outputs (can be used for HDMI, DVI or VGA)	<b>VGA</b>	1 Analog CRT VGA Port
<b>LVDS</b>	18-24-bit LVDS	<b>GBE</b>	2 x 10/100/1000 Ethernet Ports
<b>USB</b>	6 Total - 4 x USB 3.0/2.0 Ports, 2 x USB 2.0 ports	<b>HD Audio</b>	1 stereo input, 1 stereo output
<b>RS-232</b>	1 to COM Express console port	<b>GPIO</b>	8 -bits (Buffered 4in/4out, +3.3V or +5V selectable)
<b>Ext SATA</b>	2 external SATA connectors (capable of SATA III)	<b>mSATA</b>	2 mSATA slots (capable of SATA III)
<b>SD Card</b>	1 micro SD Card slot (from USB source)	<b>Input Power</b>	+12V to +48V DC
<b>Industrial SSD</b>	Up to 64GB of industrial grade SSD storage (optional)	<b>Warranty and Support</b>	2 Year Warranty and free technical support



## CARRIER BOARD COMPARISON

Part #	CCG007	CCG013	CCG016
Product Name	COM Express® PMC/XMC Type 6	COM Express® PMC/XMC Type 6 Ultra Lite	COM Express® PMC/XMC Type 6 Lite
Dimensions	381mm x 190.5mm (15" x 7.5")	170mm x 165mm (6.69" x 6.50")	195mm x 190mm (7.68" x 7.48")
Mini PCI Express	4 slots	2 slots	2 slots
PMC/XMC	2 slots	2 slots	2 slots
PMC/XMC Cooling	-	-	✓
HDMI	✓	-	✓
DisplayPort	1	2	2* (HDMI/DP switchable)
DVI	✓	-	-
LVDS	✓	✓	✓
VGA	✓	✓	✓
Gigabit Ethernet	2	2	2
USB 2.0/3.0	8/4	6/4	6/4
USB Client Port	1	1	1
Serial RS-232 / RS-485	9/8	1/0	1/0
HD Audio	✓	✓	✓
GPIO	8 bits	8 bits	8 bits
SATA	2	2	2
mSATA	2	2	2
SD Card	✓	✓	✓
Input Power Options	+9V to +36V	+12V to +48V	+12V to +48V
Temperature	-40°C to 85°C (-40°F to 185°F)	-40°C to 85°C (-40°F to 185°F)	-40°C to 85°C (-40°F to 185°F)

\*Display ++ can be used for Display Port, HDMI, DVI, or VGA



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