



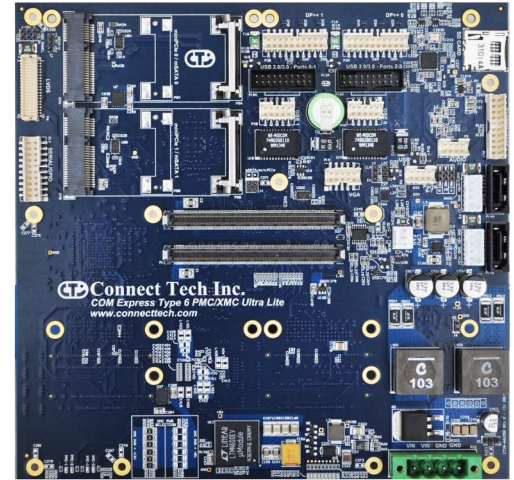
## COM Express® Type 6 PMC/XMC Ultra Lite Carrier

Connect Tech's COM Express® Type 6 PMC/XMC Ultra Lite Carrier Board is a compact, feature-rich carrier which offers dual PMC/XMC and Mini-PCIe expansion. This carrier board features USB 3.0 and DisplayPort, and supports the latest high performance processors including 4th Generation Intel® Core™ i7 (Haswell).

The COM Express® Type 6 PMC/ XMC Ultra Lite Carrier Board is 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.



**Product Name:** COM Express Type 6  
PMC/XMC Ultra Lite Carrier  
**Part Number:** CCG013



### Specifications

<b>Dimensions</b>	170mm x 165mm
<b>COM Express</b>	Accepts Type-6 Up to 4th Gen Intel Core i7 (Haswell)
<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>	Lifetime warranty and free technical support

**RoHS**

Specifications subject to change without notice.  
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### FEATURES

- ✓ Ruggedized, locking pin header connectors
- ✓ Dual PMC/XMC & Mini-PCIe Expansion
- ✓ COM Express Type 6 compatibility
- ✓ Small form factor (170mm x 165mm)
- ✓ Supports latest processor sets, including 4th Generation Intel® Core i7™ (Haswell)
- ✓ Extended Temperature Range

### COM Express Carrier Board Comparison

Part #	CCG007	CCG013
<b>Product Name</b>	COM Express® PMC/XMC Type 6	COM Express® PMC/XMC Type 6 Ultra Lite
<b>Mini PCI Express</b>	4 slots	2 slots
<b>PMC/XMC</b>	2 slots	2 slots
<b>HDMI</b>	✓	-
<b>DisplayPort</b>	1	2
<b>DVI</b>	✓	-
<b>LVDS</b>	✓	✓
<b>VGA</b>	✓	✓
<b>Gigabit Ethernet</b>	2	2
<b>USB 2.0/3.0</b>	8/4	6/4
<b>USB Client Port</b>	1	1
<b>Serial RS-232 / RS-485</b>	9/8	1/0
<b>HD Audio</b>	✓	✓
<b>GPIO</b>	8 bits	8 bits
<b>SATA</b>	2	2
<b>mSATA</b>	2	2
<b>SD Card</b>	✓	✓
<b>Input Power Options</b>	+9V to +36V	+12V to +48V
<b>Dimensions</b>	381 x 190.5mm	170 x 165mm
<b>Temperature</b>	-40°C to +85°C	-40°C to +85°C

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

**Connect Tech Inc.**  
42 Arrow Road, Guelph ON Canada  
**Tel:** 519.836.1291 **Fax:** 519.836.4878  
**Toll:** 800.426.8979 (North America)  
**Email:** sales@connecttech.com  
**www.connecttech.com**