**Connect Tech Inc.**

COM Express®

# 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 processor sets, including Intel® Skylake.

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.





## Specifications

| | |
|---|---|
| **Dimensions** | 170mm x 165mm |
| **COM Express** | Accepts Type-6 Up to 4th Gen Intel Core i7 (Haswell) |
| **Peripheral Connector Type** | Rugged Locking 2mm Pitch Connectors |
| **MiniPCIe Expansion** | 2 slots (with PCIe, USB and SATA connections) |
| **PMC Expansion** | 2 PMC (PCI) for I/O expansion |
| **XMC Expansion** | 2 x8 XMC (PCIe) for I/O expansion |
| **DisplayPort++** | 2 outputs (can be used for HDMI, DVI or VGA) |
| **VGA** | 1 Analog CRT VGA Port |
| **LVDS** | 18-24-bit LVDS |
| **GBE** | 2 x 10/100/1000 Ethernet Ports |
| **USB** | 6 Total - 4 x USB 3.0/2.0 Ports, 2 x USB 2.0 ports |
| **HD Audio** | 1 stereo input, 1 stereo output |
| **RS-232** | 1 to COM Express console port |
| **GPIO** | 8 -bits (Buffered 4in/4out, +3.3V or +5V selectable) |
| **Ext SATA** | 2 external SATA connectors (capable of SATA III) |
| **mSATA** | 2 mSATA slots (capable of SATA III) |
| **SD Card** | 1 micro SD Card slot (from USB source) |
| **Input Power** | +12V to +48V DC |
| **Industrial SSD** | Up to 64GB of industrial grade SSD storage (optional) |
| **Warranty and Support** | 2 Year Warranty and free technical support |

**RoHS**

Specifications subject to change without notice.
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## COM Express 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 | 381 x 190.5mm | 170 x 165mm | 195 x 190mm |
| 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℃ to +85℃ | –40℃ to +85℃ | –40℃ to +85℃ |

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

## 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 Intel® Skylake

✓ Extended Temperature Range

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