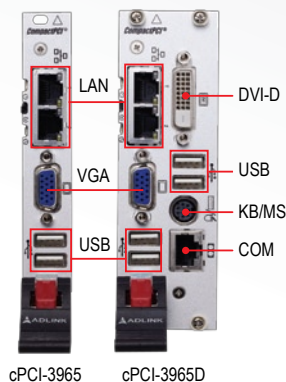
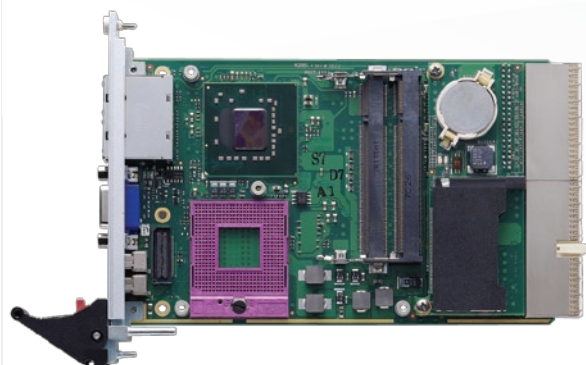


# cPCI-3965 Series

Low Power 3U CompactPCI® Intel® Core™2 Duo Processor Blade with Dual Independent Display



## Features

- Low power Intel® Core™2 Duo 2.2GHz
- Dual Channel DDR2-667 SODIMM, up to 4GB
- VGA+DVI independent display
- Two PCI-Express Gigabit Ethernet egress ports
- Serial ATA and CompactFlash storage options

## Specifications

### Processor & System

|                 |                                                                                                                                                                                                                              |
|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CPU             | <p>μFC-PGA Intel® Core™2 Duo 2.2GHz (T7500), 4MB L2 cache, FSB 800MHz</p> <p>μFC-BGA Intel® Core™2 Duo LV 1.6GHz (L7500), 4MB L2 cache, FSB 800MHz</p> <p>μFC-PGA Intel® Celeron® 2.0GHz (550), 1MB L2 cache, FSB 533MHz</p> |
| Chipset         | Intel® GME965 with ICH8M                                                                                                                                                                                                     |
| RAM             | Dual Channel DDR2-667 unbuffered memory with two SO-DIMM sockets, up to 4GB capacity                                                                                                                                         |
| BIOS            | AMIBIOS® 8 16Mbit SPI Flash memory                                                                                                                                                                                           |
| CompactPCI Bus  | 32-bit/33 MHz CompactPCI® Bus                                                                                                                                                                                                |
| PICMG Standards | <p>PICMG® 2.0 CompactPCI® R3.0</p> <p>PICMG® 2.1 Hot Swap R2.0</p>                                                                                                                                                           |

### Connectivity

|             |                                                                                                                                                                   |
|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Ethernet    | Two PCI-Express Intel® 82573L Gigabit Ethernet controllers<br>Two GbE egress ports, one configurable to rear by software                                          |
| Graphics    | <p>Integrated in GME965</p> <p>One analog VGA port on front panel, supports up to 32bit, 2048x1536 resolution @ 75Hz refresh rate</p> <p>One DVI-D front port</p> |
| USB         | <p>Maximum six USB 2.0 ports</p> <p>Four front panel USB 2.0 ports, two USB 2.0 ports on RTM</p>                                                                  |
| PS/2        | One PS/2 KB/MS Combo Port                                                                                                                                         |
| Serial Port | One RJ-45 RS-232 port on front panel, and one DB-9 RS-232 (Tx, Rx only) port on rear panel                                                                        |

### Storage

|     |                                                                                 |
|-----|---------------------------------------------------------------------------------|
| SBC | <p>One SATA port for 2.5" hard drive onboard</p> <p>One CompactFlash socket</p> |
| RTM | Two 7-pin SATA ports on RTM for external hard drives                            |

### Operating System

|    |                                                                                                                                                                                                                              |
|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| OS | <p>Microsoft Windows® XP Professional</p> <p>Microsoft Windows® Vista Enterprise</p> <p>Microsoft Windows® 7</p> <p>Fedora™ Core 7</p> <p>Fedora™ 9</p> <p>Red Hat Enterprise Linux 6</p> <p>Wind River VxWorks 6.6, 6.7</p> |
|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### Miscellaneous

|                  |                                                                                                      |
|------------------|------------------------------------------------------------------------------------------------------|
| LED              | Power, WDT                                                                                           |
| Battery          | Coin cell lithium battery onboard for RTC CMOS RAM                                                   |
| Hardware Monitor | Integrated in Super I/O IT8712F, monitors CPU temperature, system temperature, Vcore and DC voltages |
| Watchdog Timer   | Integrated in super I/O IT8712F, two stage watchdog timer, 1 to 15300 sec.                           |

### Mechanical & Environmental

| Form Factor       | 3U 4HP/8HP CompactPCI®<br>100 mm x 160mm (L x W)                                                                                                                                                                                                                                                                                  |           |  |             |           |    |     |      |      |     |     |       |  |      |
|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|--|-------------|-----------|----|-----|------|------|-----|-----|-------|--|------|
| Operating Temp.   | 0°C to +60°C standard (with forced air flow)                                                                                                                                                                                                                                                                                      |           |  |             |           |    |     |      |      |     |     |       |  |      |
| Storage Temp.     | -40°C to +85°C                                                                                                                                                                                                                                                                                                                    |           |  |             |           |    |     |      |      |     |     |       |  |      |
| Rel. Humidity     | 90% @ 60°C (non-condensing)                                                                                                                                                                                                                                                                                                       |           |  |             |           |    |     |      |      |     |     |       |  |      |
| Shock             | 15G peak-to-peak, 11ms duration, non-operating                                                                                                                                                                                                                                                                                    |           |  |             |           |    |     |      |      |     |     |       |  |      |
| Vibration         | 88Grms, 5-500Hz, each axis, operating<br>IEC68-2-64 standard                                                                                                                                                                                                                                                                      |           |  |             |           |    |     |      |      |     |     |       |  |      |
| Power Consumption | Core™2 Duo 2.2GHz (T7500), 2x 2GB SODIMM under Windows® XP with 100% CPU loading<br><table><thead><tr><th></th><th>Current (A)</th><th>Power (W)</th></tr></thead><tbody><tr><td>5V</td><td>6.2</td><td>31.0</td></tr><tr><td>3.3V</td><td>0.7</td><td>2.3</td></tr><tr><td>Total</td><td></td><td>33.3</td></tr></tbody></table> |           |  | Current (A) | Power (W) | 5V | 6.2 | 31.0 | 3.3V | 0.7 | 2.3 | Total |  | 33.3 |
|                   | Current (A)                                                                                                                                                                                                                                                                                                                       | Power (W) |  |             |           |    |     |      |      |     |     |       |  |      |
| 5V                | 6.2                                                                                                                                                                                                                                                                                                                               | 31.0      |  |             |           |    |     |      |      |     |     |       |  |      |
| 3.3V              | 0.7                                                                                                                                                                                                                                                                                                                               | 2.3       |  |             |           |    |     |      |      |     |     |       |  |      |
| Total             |                                                                                                                                                                                                                                                                                                                                   | 33.3      |  |             |           |    |     |      |      |     |     |       |  |      |
| Weight            | Net weight 602.5g in dual slot with heatsink                                                                                                                                                                                                                                                                                      |           |  |             |           |    |     |      |      |     |     |       |  |      |

### Safety & EMI

|                |                 |
|----------------|-----------------|
| Certifications | CE, FCC Class A |
|----------------|-----------------|

## I/O Table

|                 |           | GbE | USB 2.0 | VGA       | DVI-D | COM       | SATA                | CF | PS/2<br>KB/MS | LED | Reset<br>Button |
|-----------------|-----------|-----|---------|-----------|-------|-----------|---------------------|----|---------------|-----|-----------------|
| SBC             |           |     |         |           |       |           |                     |    |               |     |                 |
| cPCI-3965(4HP)  | Faceplate | 2   | 2       | 1 (DB-15) |       |           |                     |    |               | 2   | 1               |
|                 | Onboard   |     |         |           |       |           |                     | 1  |               |     |                 |
| cPCI-3965D(8HP) | Faceplate | 2   | 4       | 1 (DB-15) | 1     | 1 (RJ-45) |                     |    | 1             | 2   | 1               |
|                 | Onboard   |     |         |           |       |           | 1<br>(for 2.5" HDD) | 1  |               |     |                 |
| RTM             |           |     |         |           |       |           |                     |    |               |     |                 |
| cPCI-R3920(T)-1 | Faceplate | 1*  | 2       |           |       | 1 (DB-9)  |                     |    |               |     |                 |
|                 | Onboard   |     |         |           |       |           | 2<br>(7-pin)        |    |               |     |                 |

Note\* : Switched from front GbE port by BIOS

## Ordering Information

| Model Number                   | Description/Configuration                                                     |
|--------------------------------|-------------------------------------------------------------------------------|
| <b>Processor Blades</b>        |                                                                               |
| cPCI-3965D/T75/M2G             | 8HP 3U CompactPCI® with Core™2 Duo 2.2GHz (T7500) processor and 2x 1GB SODIMM |
| cPCI-3965D/T75/M4G             | 8HP 3U CompactPCI® with Core™2 Duo 2.2GHz (T7500) processor and 2x 2GB SODIMM |
| cPCI-3965D/L75/M2G             | 8HP 3U CompactPCI® with Core™2 Duo 1.6GHz (L7500) processor and 2x 1GB SODIMM |
| <b>Rear Transition Modules</b> |                                                                               |
| cPCI-R3920-1                   | 4HP Rear Transition Module for cPCI-3965(D), 50mm depth                       |
| cPCI-R3920T-1                  | 4HP Rear Transition Module for cPCI-3965(D), 80mm depth                       |

Contact us for more CPU, memory & HDD options.

