



- **Rugged Compact Mobile Design**
- **Intel Pentium® M Processor**
- **MIL-STD 810F / Designed to 461E Specifications**



ECM (Embedded Computer Module) offers a high-performance, rugged, computer module in a small form factor. This compact versatile design is lightweight and tested to MIL-STD 810F for shock, vibration, humidity, water and temperature. The ECM offers available 802.11b/g wireless LAN, up to 80GB removable hard drive and virtually limitless connectivity options. Designed for OEMs requiring a rugged compact platform, the ECM provides the solution.

- **Lightweight and durable**
- **Water-, shock- and vibration-resistant**
- **Removable hard drive, 802.11b/g wireless connectivity**
- **Low power consumption, longer performance time**
- **Versatile options to meet your applications**





Removable hard drive access door



200-pin docking connector for custom I/O interfacing



1. Integrated 802.11b/g wireless LAN
2. Rugged 40GB to 80GB user-removable hard drive
3. Packaging rugged, lightweight, die-cast, magnesium aluminum alloy
4. LV Intel® Pentium M processor at 1.4 GHz with conductive cooling

ECM Specifications

| | |
|-------------------------|--|
| CPU/cache | Intel® Pentium® M 738 processor at 1.4GHz, 2MB L2 cache |
| Bus speed/chipset/BIOS | 400MHz/855 GME/AMI |
| RAM | 512MB DDR 333MHz DRAM (PC2700), upgradeable to 1GB |
| Video/video memory | 64MB Integrated Graphics Solutions with Intel® Extreme Graphics 2 technology |
| CD-ROM and floppy drive | Via external USB drives: Optional |
| Removable hard drive | 40GB removable: standard (60GB and 80GB upgrades available) |
| I/O connectivity | 200-pin edge connector with capability of the following expansions: PCI 2.0 bus, LVDS & analog Video out, 2 Smart batteries, 4 USB 2.0, PS/2 mouse and keyboard, 2 RS-232 and 1 LPT port, power input |
| Expansion slot | Mini-PCI with 802.11b/g expansion with an integrated antenna |
| Sound | Audio-capable with available 200pin connection |
| Power | 12VDC power input |
| Weight | 1.72lbs (0.78kg) |
| Dimension | (W x D x H) 4.32 x 6.57 x 1.9-inch (10.97 x 16.68 x 4.82cm) |
| Environmental | Rain and blowing rain: MIL-STD 810F, Method 506.4, Procedure I, water submersion: 1-meter for 1min, non-operating, sand and dust: MIL-STD 810F, Method 510.4, Procedure I, II, and III, salt fog: MIL-STD 810F, Method 509.4 |
| Temperature | -15° to 60°C, -40° to 60°C: optional expanded spec, -25°C: cold start |
| Humidity | MIL-STD 810F, Method 507.4 non-operating: 5 to 88% relative humidity, non-condensing |
| Shock | MIL-STD 810F: 40g operational, 75g crash hazard |
| Vibration | MIL-STD 810F: Method 514.5, Procedure 1, Cat. 20, Table 514.2-VII |
| Altitude | -300 to 3000 meters (-984 to 9843 feet) |
| EMI & Safety/Protection | FCC Class A, ETL |

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