

The ECM is a low power, high performance; Intel Pentium M based Embedded Computing Module. This module was designed to meet Mil-Std 810F ratings for shock, vibration, humidity, water and temperature. The ECM features a solid, rugged, cast magnesium alloy construction to protect the internal subsystems. The ECM is designed specifically for the OEM who requires a small form factor rugged PC engine for their application-specific solution.

The ECM consists of 3 boards; the QS module which contains the processor and chip set, the main board which connect the 3 boards together and has a 200 pin docking connector for interfacing to the OEM's custom IO module and the Mini-PCI 802.11bg wireless product from Intel, WM3B2200BGMNNB2. The wireless device uses an antenna from Anteniques with a part number of MI-001-159-05. The antenna is a dipole array, 2.4 to 2.5GHZ frequency range, omni radiate, vertical polarization, 50 ohm nominal impedance, 1dBi nominal gain. This antenna is use with Intel 802.11BG mini PCI card part number 2200BG to provide a 802.11 wireless solution for the ECM 1400.

The final pieces which make up the ECM are the removable hard disk drive module, memory and the operating system.