Specifications:
Weight: 2.65 oz / 75 g
Operating Temperature: -20°C to +70°C
Further testing at WHOI to be performed to -40°C
CSAC: Symmetricom/Microsemi SA.45s
GPS: u-blox NEO-6T-0
Microcontroller: Atmel SAM3X8EA-AU
FPGA: Actel AGLN250V2-VQG100
Supercap will maintain power for ~2 minutes

Power Consumption:
As of October 2014
Idle: 600mW @ 12V
Supercap Charging: 1.68W @ 12V
Power Consumption to be further addressed and characterized.

J8: 3.3V GPIO (5V Tolerant)
FCI 98464-G61-16LF
Pin 1 GPIO 1 (GPS PPS Input)*
Pin 2 GPIO 2
Pin 3 GPIO 3
Pin 4 GPIO 4
Pin 5 GPIO 5
Pin 6 GPIO 6
Pin 7 GPIO 7
Pin 8 GPIO 8*
Pin 9 Edge PPS (output)
Pin 10 I2C #ALERT (I/O)
J7: RS232 Serial
FCI 98464-G61-10LF
Pin 1 COM1 TX (output)
Pin 2 PPS OUT (RS232 Level)
Pin 3 COM1 RX (input)
Pin 4 GND
Pin 5 COM2 TX (output)
Pin 6 COM3 TX (output)
Pin 7 COM2 RX (input)
Pin 8 COM3 RX (input)
Pin 9 GND
Pin 10 GND

J6: Power
FCI 98464-G61-06LF
Pin 1 GND
Pin 2 VIN (3.2V-33V)
Pin 3 GND
Pin 4 VIN (3.2V-33V)
Pin 5 GND
Pin 6 VIN (3.2V-33V)

Mating Connector Info:
J4 ~ MMX PLUG 50 Ohm
J6 ~ 90311-006LF
J7 ~ 90311-010LF
J8 ~ 90311-016LF
P4 ~ WHOI Cable 231018b-xx where xx is length
If using other note that mating Samtec part has pin numbering reversed from P4 on board.

Note: The mating connectors listed do not have a Pin 1 indicator that matches the connectors on the Micromodem. The FCI 10068573 series does have the correct Pin 1 indicator to match the Micromodem but availability of this series has been limited if at all. Please take the necessary precautions to make sure any wiring that interfaces the Micromodem matches the pinout of the connectors installed on the Micromodem board.

* Function dependent on installed FPGA image at time of this writing.