Micromodem 2.0

Specifications:
Weight: 1.69 oz / 48.1 g
Operating Temperature: -40°C to +70°C (default)
-40°C to +85°C (factory option)
The environmental specifications are ensured by design and lot testing but not guaranteed or individually tested unless specifically requested by the customer.

Voltage Levels (nominal):
Analog Input Voltage: 0-3.0V
Analog Output Voltage: 0-2.5V
Digital Logic Inputs: 0-3.3V (max 0-5V)
Digital Logic Outputs: 0-3.3V
AUX ADC Input: 0-2.5V
RS232/RS485 I/O: +/-12V
VPWRAMP and VPREAMP Supplies: 3.3V, 50mA Max
3.3V OUT Supply: 3.3V, 100mA Max

For additional specifications please refer to the Micromodem manual.

J3 - Serial Port User
FCI PN: 98464-G61-16LF
Pin
1  GND
2  GND
3  COM1 RS232 TX
4  COM2 RS232 TX
5  COM1 RS232 RX
6  COM2 RS232 RX
7  COM1 RS233 RTS / TX
8  COM4 RS232/485 RX / TX+ / TX
9  COM1 RS232 RTS
10 COM4 RS232/485 TX / TX-
11 EXTTPPS
12 COM4 RS232/485 RX / RX+
13 COM1 RS232 /RTS
14 COM4 RS232/485 /RTS / RX-
15 TXTTRIGGER
16 GND

J1 - Analog and User I/O
FCI PN: 98464-G61-14LF
Pin
1  TXACTIVE
2  GPIO3
3  GPIO4
4  RXACTIVE
5  TXINHIBIT
6  VXRC
7  GPIO5
8  GPIO6
9  GPIO7
10 COM3 Logic RX
11 COM3 Logic TX
12 COM3 Logic /RTS
13 COM3 Logic /CTS
14 AUX ADC +
15 AUX ADC -
16 GND

J4 - Logic Level User I/O
FCI PN: 98464-G61-12LF
Pin
1  GPIO1
2  GPIO2
3  COM3 Logic /TX
4  COM3 Logic /RX
5  GPIO3
6  GPIO4

J5 - Power
FCI PN: 98464-G61-06LF
Pin
1  GND
2  VIN (3.6VDC - 35VDC)
3  GND
4  VIN (3.6VDC - 35VDC)
5  GND
6  VIN (3.6VDC - 35VDC)

Mating Connector Info:
Mate for
J5                  90311-006LF (6-pin)
J4                  90311-012LF (12-pin)
J1                  90311-014LF (14-pin)
J3                  90311-016LF (16-pin)
Pins               77138-101LF
Crimp Tool       HT-151

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.

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RS232/RS485 I/O: +/-12V
VPWRAMP and VPREAMP Supplies: 3.3V, 50mA Max
3.3V OUT Supply: 3.3V, 100mA Max

For additional specifications please refer to the Micromodem manual.

Power Consumption:
Figures for Micromodem DSP Only
Idle: 497mW @ 12V
Receive: 497mW @ 12V
Transmit: 497mW @ 12V
Hibernate: 155mW @ 5V, 500mW @ 12V

Figures are for typical operation only.

Board Spacing for Connector Mating:
For new style boards mating via J7 and J10
Below Micromodem: 0.275” / 7mm
Above Micromodem: 0.275” / 7mm
For legacy boards mating via J8 and J9
Above Micromodem: 0.313” / 8mm (Legacy)
Chassis spacers are available from WHOI.

Unless Otherwise Noted:
1. Tolerances: Decimal ±1 Deg
2. Dimensions are in Inches
3. Break All Sharp Edges
4. Surface Finishes Critical for O-Ring Surfaces
5. Material: Default
6. Finish:

Designer: Keenan Ball
Engineer: Keenan Ball
11/14/2013

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