

concept: take conceptual electronics from compass housing & move them to the modem housing!

improvements:

1. Less weight & bulk.
2. more robust setup.
3. Needs safety considerations & rebuild from full failure
4. More Power efficiency.

additions

1. Board mount compass.
2. Power Fuse & diode for circuit protection
3. Program PIC to send modem into low power state?
4. Charge in case? + P

power : Modem ATM-887 Subsea Bentham Modem.

14-28.0VDC

@ Lowpower 0.5 mA

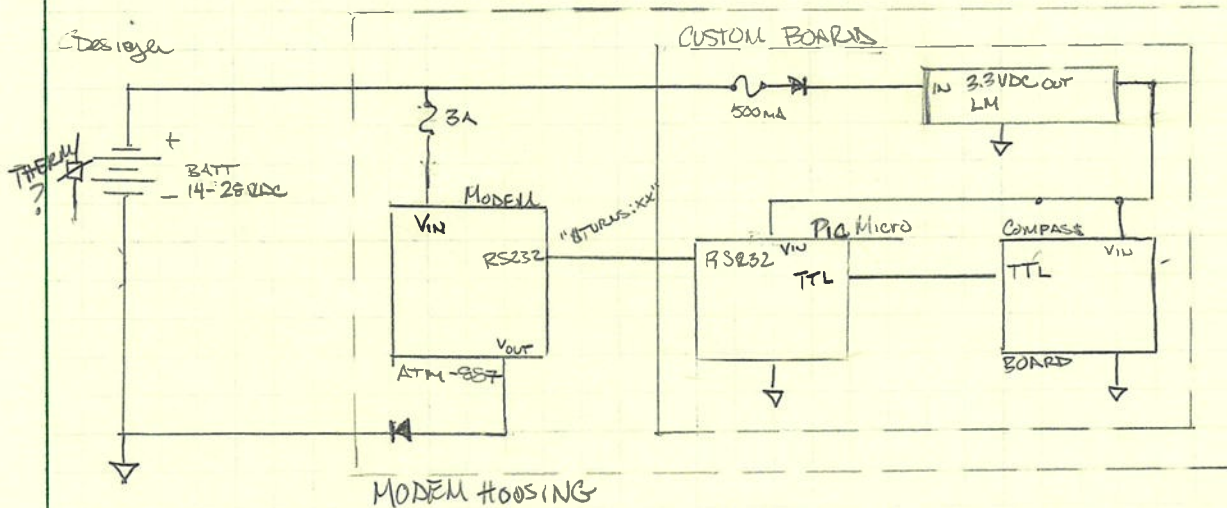
@ Receive 25mA

@ Transmit 1A typ. / 2A maximum

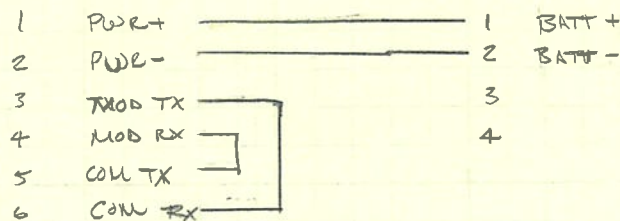
← this is bulk of consumption
these small message =
better efficiency

Compass < 30mA @ 3.3VDC

PIC MICRO < 60 mA @ 12VDC (cheater 3.3VDC)



MODEM BULK-HEAD : new config will only require 2 pins of 6.



↑
WHIP ASSEMBLY