Mark Silver's ProFlexLite Notes

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By: Mark Silver, ms@igage.com, Igage Mapping Corporation, +1 801-412-0011

ProFlex Lite Purchasing Notes:

The PFLite is a great solution for a permanent or mobile base that does not need to store static data. (It will store static data, however you have to capture the data externally.)

The programming cable for a Pacific Crest High Power (or Low Power) base connects directly to the B port of the PFLite. This saves $208 for a dedicated GPS cable.

The PFLite is an especially nice solution for a stand-alone permanent base station:
- There are not any buttons so it is difficult for someone to screw it up
- It automatically starts on power up in the same configuration as it last was
- The case is bomb proof (well nearly)
- It accepts a wide range of supply voltages

Here is a complete BOM for a L1/L2/GLONASS base GPS:

ProFlex Lite L1/L2 GPS/GLONASS	**990626-03**	**$8,095.00**
GNSS Survey Antenna - MAG111406 (38dB)	111406	**$1,995.00**

So the complete system price without radio is $10,090! This is $2,000 less than a PM500 (not really a reasonable base station) and $3,900 less than a PF500.

Setup Notes:

MobileMapperCX COM Port will NOT drive a PFLite! It does not have CTS & RTS.

AllegroCX will. I have three files that work to Init and setup a base to the here position. See http://www.magprogps.com/ms/pflite/SCRIPTS/

SET BASE WITH ATOM OUTPUT ON PORT B AT 38400 BAUD

OPTIONALLY RESET EVERYTHING, PORTA=115200,PORTB=38400,RESET ALL
$PASHS,INI,9,7,1

…WAIT A WHILE FOR RECEIVER TO TRACK AND GET AUTONOMOUS…

STROBE CORRELATOR
$PASHS,CRR,S

PORT B=38400 BAUD
$PASHS,SPD,B,7

SET ANTENNA TYPE,SERIALNUMBER,SETUPID
$PASHS,ANP,OWN,MAG111406,123456,1

SET ANTENNA HEIGHT ABOVE ARP
$PASHS,ANH,0

SET SITE NAME
$PASHS,SIT,2337

SET POSITION TO CURRENT
$PASHS,POS,CUR

TURN ON ATOM
$PASHS,ATM,RNX,B,ON
$PASHS,ATM,ATR,B,ON

SET BASE WITH RTCM31 OUTPUT ON PORT B AT 38400 BAUD

OPTIONALLY RESET EVERYTHING, PORTA=115200,PORTB=38400,RESET ALL
$PASHS,INI,9,7,1

…WAIT A WHILE FOR RECEIVER TO TRACK AND GET SDGPS

STROBE CORRELATOR
$PASHS,CRR,S

PORT B=38400 BAUD
$PASHS,SPD,B,7

SET ANTENNA TYPE,SERIALNUMBER,SETUPID
$PASHS,ANP,OWN,MAG111406,123456,1

SET ANTENNA HEIGHT ABOVE ARP
$PASHS,ANH,0

SET SITE NAME
$PASHS,SIT,2337

SET POSITION TO CURRENT
$PASHS,POS,CUR

TURN ON ATOM
$PASHS,RT3,1004,B,ON
$PASHS,RT3,1012,B,ON
$PASHS,RT3,1006,B,ON,13
$PASHS,RT3,1033,B,ON,31