IFD5XX/4XX Interface SkyTrax 100B

Avidyne Factory Authorized Installation Training

Section 3.41 – Skytrax100B

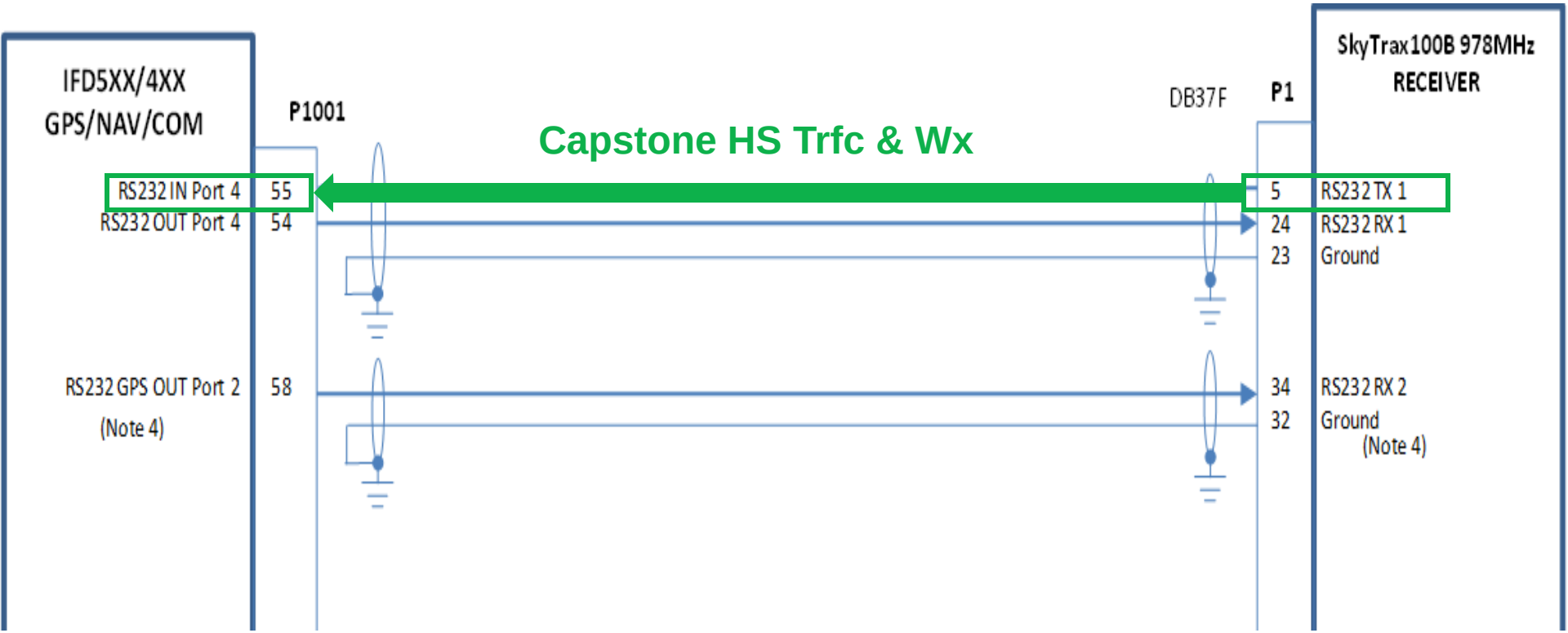
SkyTrax 100B Interfaced with IFD5xx/4xx

*** Note***

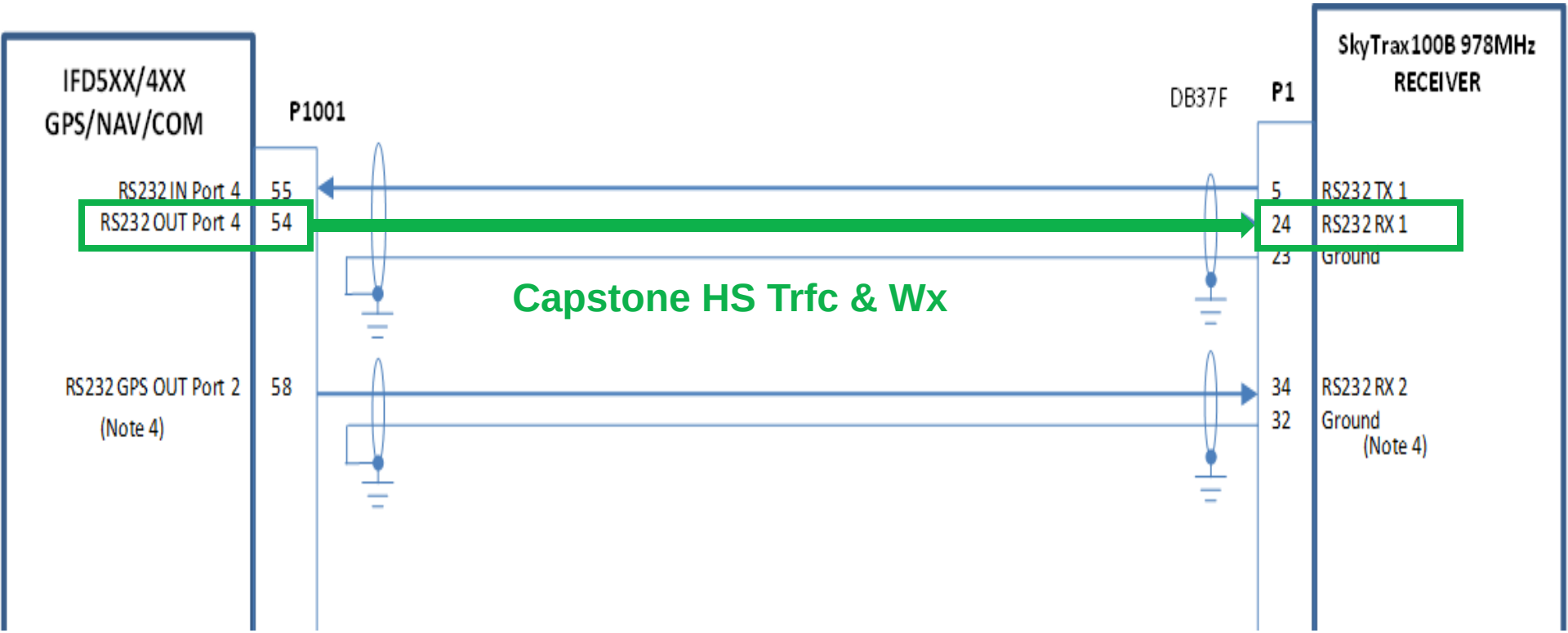
The ST100B only needs to be connected to a single IFD in multiple IFD installations. All of this data will cross-sync to the opposite IFD.

AVIDYNE

SkyTrax 100B Interfaced with IFD5xx/4xx



SkyTrax 100B Interfaced with IFD5xx/4xx



AVIDYNE

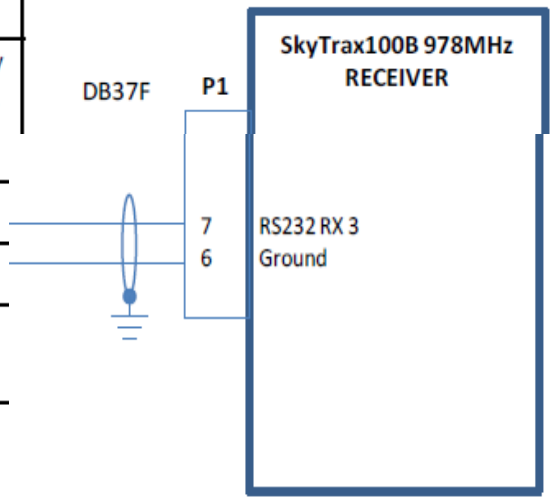
SkyTrax 100B Interfaced with IFD5xx/4xx

SkyTrax 100B Interfaced with IFD5xx/4xx

- For proper display of ADS-B traffic, the SkyTrax100B must also be receiving altitude from a certified altitude source.
- The IFD cannot provide altitude to the Skytrax100B, so this altitude data must be sourced elsewhere.

SkyTrax 100B Interfaced with IFD5xx/4xx

Serial Altitude Source	Avidyne	ACK	Icarus Serializer	Sandia Aerospace	Shadin	TransCal
	AXP340	A30.9	3000U	SAE5-35	8800-T	SSD120-30/ 35N-RS232
	J1	J1	P3	J5	DB15	DB9
Serial Altitude Out	6	7 or 14	2	1	7	4
Ground	1	15	8	5	15	5
[Altitude Encoder Config]	Note 7	Note 6a Note 8	Note 6b	Note 6c	Note 6d Note 8	Note 6e Note 8



6) a. No Jumper Installed
   b. Icarus 9600BPS Default=No Jumpers on P3-3 or P3-9
   c. Icarus 9600BPS Default= J5-4 is Open
   d. Icarus 9600BPS
   e. Icarus 9600BPS + DB9-7 Grounded, DB9-2, 6 Don't care.
7) This should only be used if the AXP340 is receiving altitude via gray code
8) Configure for "Icarus" protocol

SkyTrax 100B Interfaced with IFD5xx/4xx

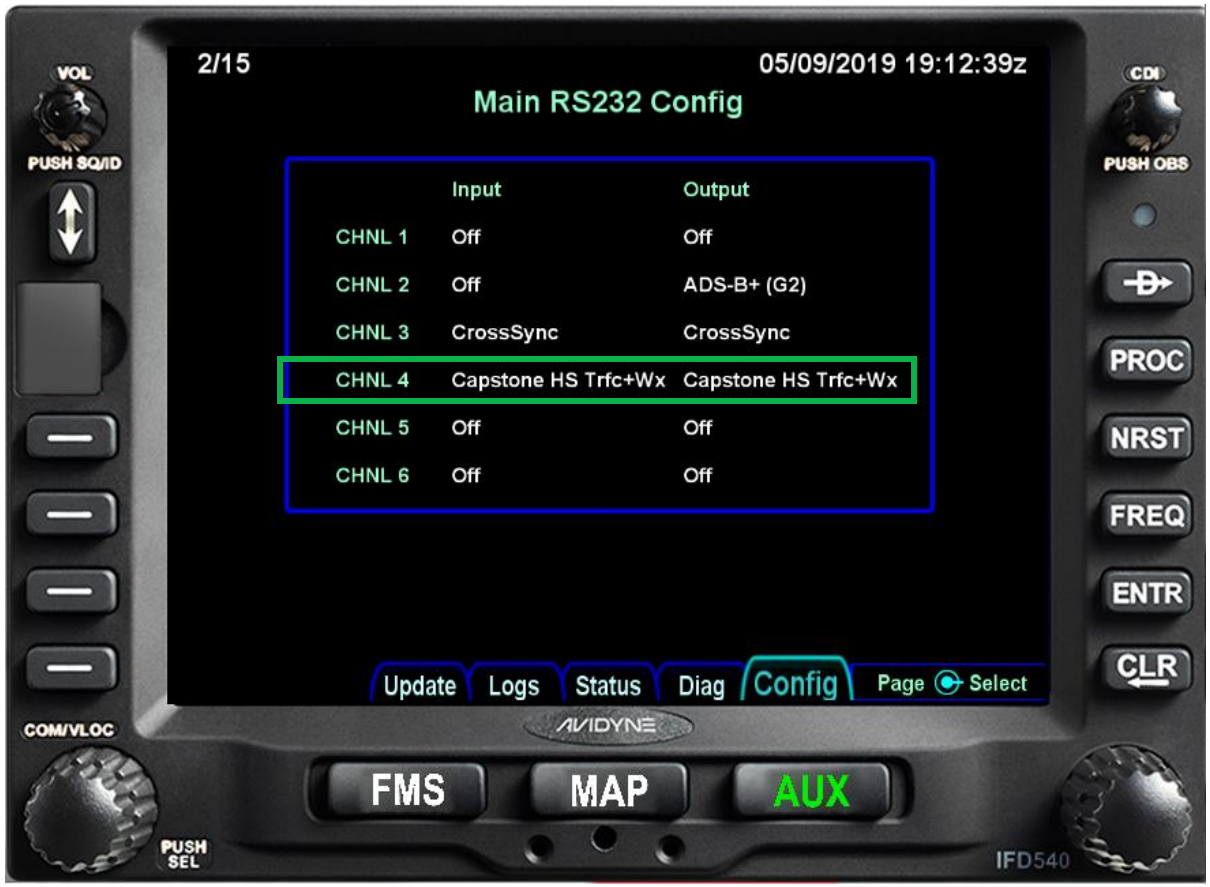
- Configuring the IFD
  - The following configurations are designed to match the ports used in the preceding drawings. You can use any available RS232 or ARINC429 port, as long as the port configurations match the port wiring.

SkyTrax 100B Interfaced with IFD5xx/4xx

ADSB+(G2) to provide GPS data to the ST100B at 38,400 Baud Rate

ADS-B+(G) to provide GPS data to the ST100B at 9,600 Baud Rate

SkyTrax 100B Interfaced with IFD5xx/4xx



Capstone HS Trfc & Wx to and from the ST100B for ADSB traffic and FIS B weather Display at 115,200 Baud Rate

AVIDYNE