A32X FCU Interface Board Quickstart Guide (Rev. 3)
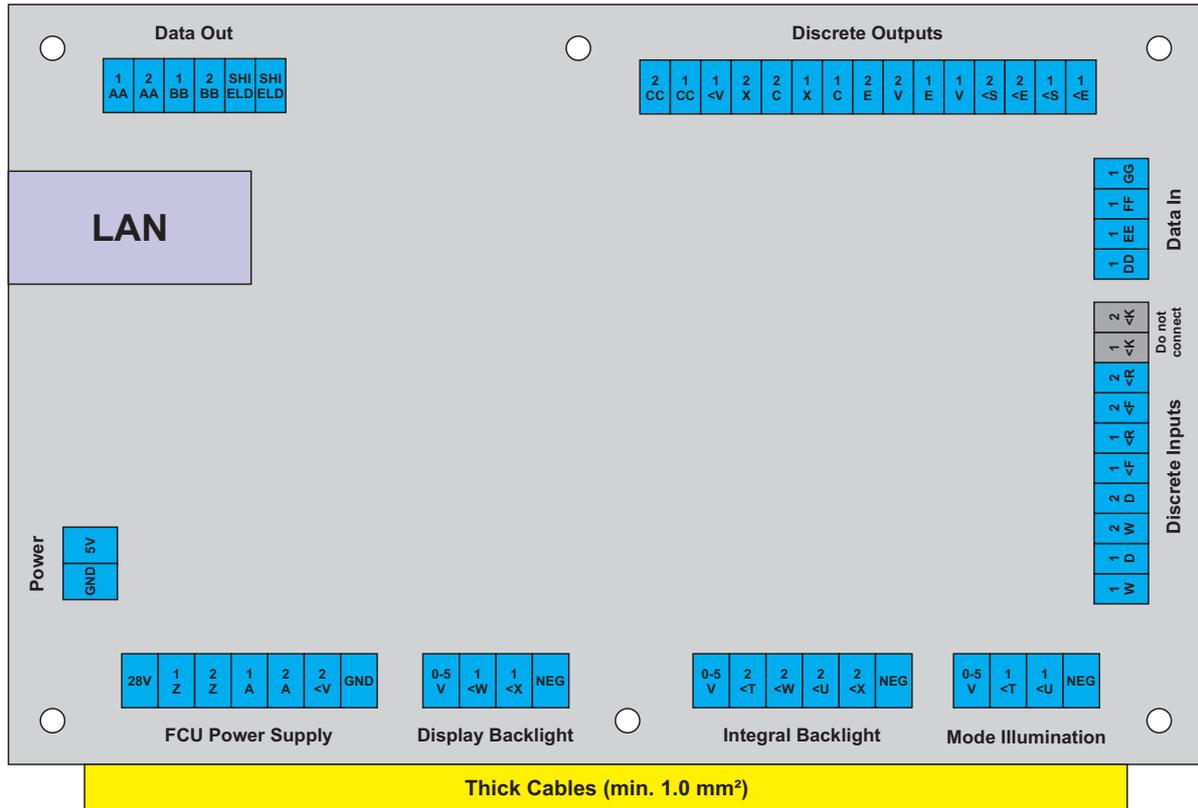
Connect the board with a LAN cable to your local network. Connect a 5 V power supply to the board and it will power up. By default the board will try to retrieve an IP address by DHCP. Check your router which IP it got. You may open that IP and change the network settings if you like (if you need an username or password just ignore it / press enter) or leave it as it is.

For JeeHell, check if CockpitConcept.dll is present in JeeHell's Hardware Modules folder, otherwise you may have to reinstall JeeHell FMGS and enable the option to install Cockpit Concept hardware support. For ProSimA320 no action is required.

Start Cockpit Connect and open the Settings window (button in the upper right). For JeeHell, enter the IP address of the computer that runs Hardware Connect in the section „JeeHell". For ProSimA320, enter the IP address of the computer that runs the main module in the section „ProSim" and select „A320" from the dropdown list. Enter the IP address of the FCU board in the section „A320 FCU Interface". Don't change any of the ports. Click on „Save settings" and restart Cockpit Connect.

In the lower part of the main window you should see two boxes: „JeeHell" or „ProSim" and „A320 FCU". The color indicates the connection status. Red is no connection, green is connected. If JeeHell or ProSimA320 and the FCU interface board are running and your IP settings are correct, both boxes should turn green after a few seconds. Click on the box „A320 FCU" which opens a new config and debug window. Here you have to select the software with that you want to use the FCU. You can also see the switch status (2 for AP1, 2 for AP2 and 4 for ATHR) and the healthy flags returned by the FCU. You can check if your FCU has broken switches. The healthy flags are not really needed and will only show healthy FCUs when all internal channels are 100% working and you also have the feedback wires of the data output connected (check the ASM for this). Depending on your FCU status, those inputs might flicker. In that case, disconnect the wires from the board (<K) to prevent the software from being flooded with hundreds of status updates each second, which might slow it down. Don't forget to save your software selection.

If your virtual aircraft is powered up in JeeHell or ProSimA320 and you have selected the correct software from the dropdown list, you should hear relays clicking on the FCU interface board. This means all connections are working properly.

!!! ONLY CONNECT CABLES TO THE FCU INTERFACE BOARD WITH ALL POWER SUPPLIES TURNED OFF !!!

Start with connecting FCU Power Supply, Display Backlight, Integral Backlight and Mode Illumination. The FCU has two connectors: J1 and J2. The pins are labeled A to Z, a to z and AA to PP. To better distinguish upper-case and lower-case characters, lower-case characters got a leading < sign. So A means A and <A means a. The 1 and 2 indicate the connector J1 or J2. Connect the lower row. The voltage for Display Backlight, Integral Backlight and Mode Illumination may vary between 0 and 5 V, depending on your dimmer status. Power everything up and the FCU should power up, too (it takes a few seconds to boot, you may hear relays clicking in the FCU). Backlight should also work now.

Turn it off and connect all other cables (except <K, see the following note). For the Data Out lines, best use shielded cables and connect the shield to the labeled connectors. The FCU should now by fully working.

Note: <K are healthy signals from the FCU. It has been observed a few times that these signals can cause trouble with slighty defective FCUs. As these are optional, best leave them disconnected to avoid any trouble.

DON'T USE THE SAME 5 V POWER SUPPLY FOR FCU LIGHT AND INTERFACE BOARD POWER - THIS MAY CAUSE PROBLEMS WITH THE BOARD. USE A SEPARATE STABLE 5 V SUPPLY.