



FDS-PRO-Ethernet-CDU

Sim-Avionics Integration



New for **2020**, the FDS-Pro-Ethernet-CDU comes with HDMI compatibility. With most of the latest Graphics cards (GFX) providing DVI-D and HDMI there are limited GFX cards available.

The newest version lets you use the latest GFX cards.

*Minimum requirement for GFX cards and Avionics Suites is a 2 GIG card.

– SOLUTIONS ——



Sim-Avionics shown on the screen

SOLUTIONS



- Rubberized Keys
- Dome type switches providing millions of cycles
- Brightness switch is functional (screen dimming)



S

OLUTIONS-



Looking from the rear and left to right:

L Position – IBL constantly ON (set to maximum)

C Position – External IBL from PWM dimmer.

R Position - External IBL from DC voltage regulated dimmer.

* The "C" position is most commonly used when connected to the FDS IBL Dist Boards.

- S O L U T I O N S ——





- HDMI port
- Screen switches w/indicator LED
- Ethernet jack
- Reset switch
- Power jack
- Back lighting switch/remote IBL jack

— SOLUTIONS ——



Rear View

- S O L U T I O N S ——



Cables connected to the CDU

SOLUTIONS —



Pin1 – DC voltage from "0 to 5V" from voltage regulated dimmer **OR** "PWM" from PWM dimmer. Pin2 – GND

*Connects to the FDS IBL Dimmer in the Pedestal with the supplied cable.



<u>File Edit Import/Export</u> 2 Aircraft Type Jetmax Running **Refresh Switch States** Return to Basic Mode 737 0 777 737Max () 787 OVH New Open Save Dimmer / Misc SYSBoard Input Output CDU Radio Gauge FDS TQ Switch / LED Control Axis Status Assignments Assignments Assignments Assignments Assignments Axis Assignments Monitor SYSBoards Currently Dectected Options Encoder Adjustments Info Save Select Active Board Functions Enable Switches and LED Boards 🔽 Enable MCP / EFIS Enable CDU's 🔽 🔽 Enable Radios 🛛 Enable IRS Panel 🔽 Enable ELEC and Cabin Alt Panels Enable ETHERNET Boards (Restart Program to take affect) **ELEC Panel Compatibility** Hide Ethernet Boards Ethernet Board Detail FLEC / FLT ALT Compatibility Options O Devices Loa IIT801F12A33D60 Option 0 Option 3 Option 1 Option 4 Option 2 Other Options Hide On Startu Use 3 Digit MACH on Jetmax MCP Write Outputs on Change Only ▼ TCAS Test leaving STBY Enable Matrix Orbital COMx Detected Interface Plugins Flight Illusion Gauges Enable Flight Illusion COMx F 4 Enable Interface Plugins Auto Rescan for Ethernet Boards Rescan for Connected Ethernet Boards Show Board Descriptions C 1 2 3 4 A/T Arm Test A/T Arm C Switch Rescan Complete Flight Sim Not Detected LED Output Loop FPS : 2.0 7Seg Output Loop FPS : 2.0 Mem = 50,794

- Start the SYSBoard Controller
- The SYSBoard Controller will be searching for any ethernet devices in the network.
- Check the box for the board you are going to assign.
- Multiple Ethernet boards will show up, you can run the SYSBoard Controller on multiple computers and only assign the boards you want to run on that computer. Spreading out the "load" on the SYSBoard Controllers is recommended. Run the CDU video and SYSBoard Controller on the same computer.

SOLUTIONS -

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	Uptions Encoder Adjustments Info Save
	Select Active Board Functions Enable Switches and LED Boards Enable MCP / LFIS Enable CDU's Enable Radios Enable IRS Panel Enable ELC and Cabin Alt Panels Enable ETHERNET Boards (Restart Program to take affect)
Ethernet Boards Ethernet Board Detail	Hide ELEC Panel Compatibility
✓ IIT801F12A33D60 FIGHTER Solutions Airbus CDU 1 rev1 . 1 Device Loaded	2.0.51 C Option 0 C Option 3 C Option 1 C Option 4 C Option 2
	Other Options ☐ Hide On Startup ☐ Use 3 Digit MACH on Jetmax MCP ☐ Write Outputs on Change Only ☐ TCAS Test leaving STBY
Detected Interface Plugins Flight Illusion Gauges	Enable Matrix Orbital COMx -
	Enable Flight Illusion COM× Enable Interface Plugins Auto Rescan for Ethernet Boards
	Rescan for Connected Ethernet Boards
	Show Board Descriptions
	C 1 2 3 4 A/T Arm Test A/T Arm O
Switch Received 9001 73.0	LED Output Loop EPS : 2.0 7Seg Output Loop EPS : 2.0 Mem = 51 323

- The Ethernet Board Details will show up
- If required there is a "Rescan for Connected Ethernet Boards"



 Then click the *CDU Assignments* tab to assign the CDU's in your MIP (or OBS in B777 set-ups)

_____ S O L U T I O N S _____

Sim-Avionics : SYSBoard Controller - Versior	1.98							– 🗆 X
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- SOLUTIONS ——

FIG 1

- To locate the CDU press any key on the CDU
- ID shows up in yellow once you press the key on the CDU.

FIG 2

- ID number shows up for the CDU screen and needs to be assigned to the position of that CDU.
- Assign to the Captain, First Officer or 1 of 3 Observer CDU's (B777 has a third CDU in the pedestal)
- Press the SAVE button to save the assignment.
- Start the CDU programs and follow the screen set-up instructions.

Note: There is no manual for the SYSBoard Controller, all instructions are on the screens and may have a "Comment" when the cursor is placed over some areas.



ECON CLB 1/3 DUAL FMC OP RESTORED DEP RTE ATC LIMIT DE C NEXT G н N O RST Q X Y SP DEL / CLR

FIG 3

- 1) Start the CDU program you are using in the MIP
- 2) The CDU appears on the Main PC screen as above.
- 3) Drag the CDU over to the CDU screen. (Fig.3)
- 4) Once positioned in the CDU hardware screen, press the "END" key on your computer keyboard. The CDU will go to Full Screen.
- 5) Close the Sim-A CDU program to allow the screen settings to be written to the CDU ini file in Sim-A **CTRL+F4**
- 6) Re-start the CDU program and the CDU will display the CDU screen in your CDU hardware.
- 7) Use the "Line Set-Up" located in the CDU under Sim-Options/Sim/Next Page/Line Setup. First screen sets the lines, press Next Page and you can set the margins and Scratchpad setting. Press Save when done.



IGHTDECK

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CDU Display and Full Screen using the "END" key on the computer keyboard.

SOLUTIONS —





Screen Dimming in Sim-Avionics using the Brightness switch on the CDU.

<u>Terminology</u>

Computer Display Display				
Line Select Key				
Flightdeck Solutions Ltd				
Integrated Back Lighting for FDS Panels				
Main Instrument Panel				
O ver h ead				
Center Aisle Stand or Pedestal				
Throttle Quadrant				
Technology that connects wired local area				
networks (LANs) and enables the device to				
communicate with each other through a protocol				
which is the common network language.				