



FDS-PRO-Ethernet-CDU

ProSim B737 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 and DisplayPort.

The newest version lets you use the latest GFX cards with HDMI and/or Display Port.

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

*Requires ProSimB737 3.08b13 or higher.

* Tested with 3.08b31





ProSim 737 shown on the screen

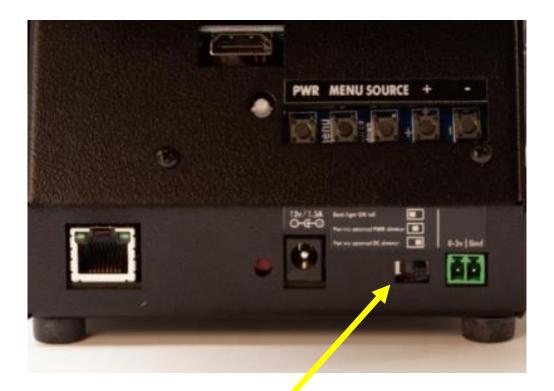




- Rubberized Keys
- · Dome type switches providing millions of cycles
- Brightness switch is functional (screen dimming) from the ProSim software to dim the ProSim CDU screen brightness.

Note: **Not** the hardware screen brightness

FLIGHTDECK — SOLUTIONS —



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.
- Left/Center/Right

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

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Rear View





Cables connected to the CDU





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. See **page 11** in the **FDS-PRO-Ethernet- CDUManual** for further details on connecting this harness if required.

Latest change to the FDS-E-Series CDU in ProSim

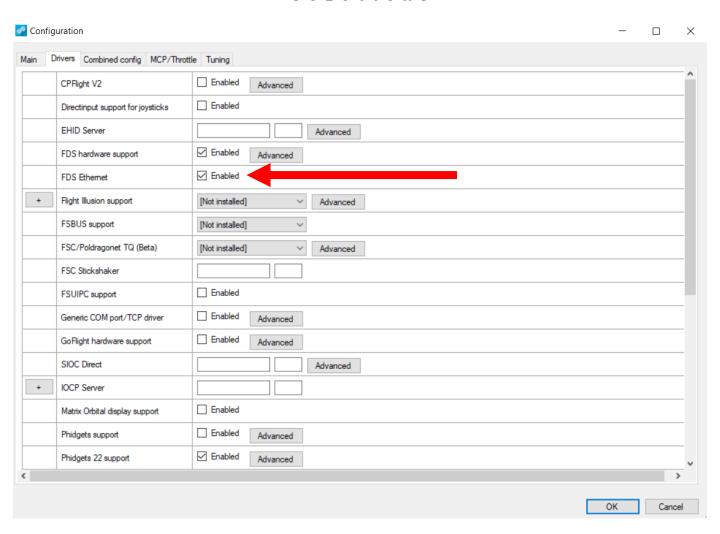
A change was necessary to add an easy way to assign the CDU's in ProSim. Follow the instructions to make your installation easy!

Release Note:

- [FDS Ethernet] Refactored hardware detection
 Note: Advanced window was removed, and hardware
 implementation is based on device host Name. This will allow device PnP implementation within ProSim







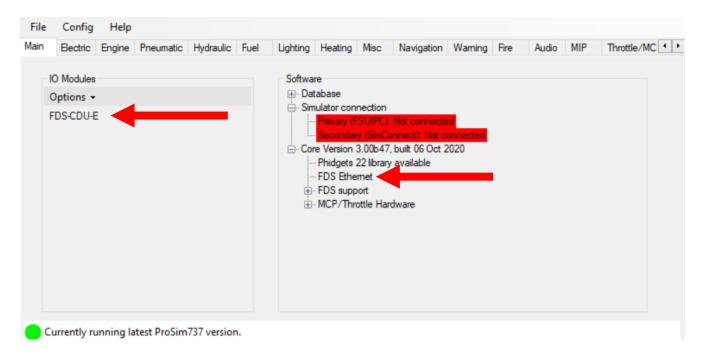
Open the ProSim System B737 Config screen and open the Drivers Tab. Version 3.08b13 or higher is required.

Enable "FDS Ethernet"

Click "OK"

ProSim will reload.





In the IO Modules list you will see "FDS-CDU-E" and FDS Ethernet in the Software List.

*It is recommended you use the Test Module to locate the IP Addresses of each CDU. ProSim does not have a way to tell you which CDU is which. Change the default "Host Name to "CA_CDU and FO_CDU as per page 13 in this manual.

Default Host Name looks like this: IIT801F12889819

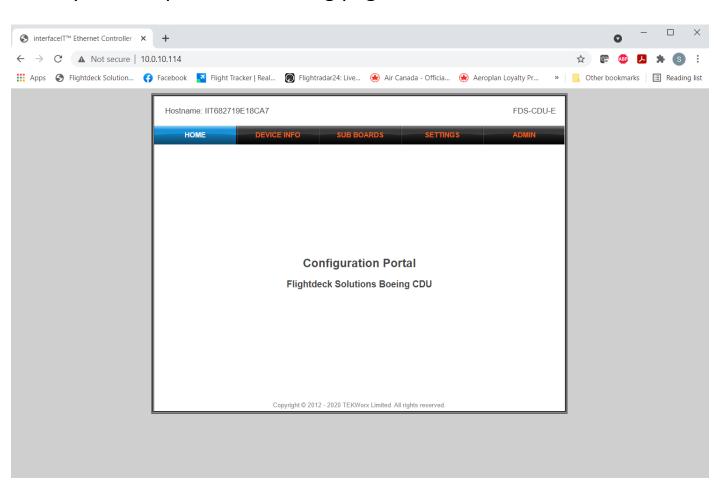
In ProSim, there is a requirement to change the "Host Name" to match the CDU position in the simulator. The 2 names are :

CA_CDU FO_CDU

There must be NO spaces so use an underscore as shown above.

Once ProSim sees the new Host Name it will automatically assign each CDU to that position.

Type the IP Address you get from the Test Module into your browser and you can open the following pages.



Click on the "Settings" tab and the Host Name is visible. This is where you will change the Default Host Name to the new Host Name depending on the position of the CDU.

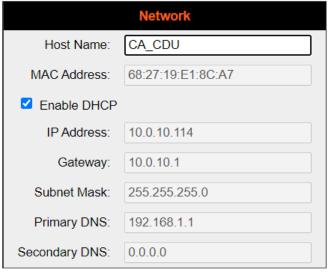
CA_CDU or FO_CDU

Hostname: IIT682719E18CA7	FDS-CDU-E						
HOME DEV	ICE INFO	SUB BOARDS	SETTINGS	ADMIN			
CAUTION: Incorrect settings may cause the device to lose network connectivity.							
	Network		Miscellan	ieous			
Host Name:	IIT682719E18CA	47	Board Location	n: 1 🗸			
MAC Address:	68:27:19:E1:8C:/	A7	Board Usage	e: 1 🗸			
✓ Enable DHCP							
IP Address:	10.0.10.114						
Gateway:	10.0.10.1						
Subnet Mask:	255.255.255.0						
Primary DNS:	192.168.1.1						
Secondary DNS:	0.0.0.0						
		ave Configuration					

Change the Host Name to the position of the CDU as per below

HOME DEVICE INFO SUBBOARDS SETTINGS ADMIN

CAUTION: Incorrect settings may cause the device to lose network connectivity.



Miscellaneous				
Board Location:	1 🗸			
Board Usage:	1 🗸			

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Save Configuration

Click on the "Save Configuration" to allow the TEKWorx software to change the Host Name.as per below

Hostname: IIT682	2719E18CA7					FDS-CDU	J-E
HOME	DEV	ICE INFO	SUB BOARDS	SETTI	NGS	ADMIN	
CAL	JTION: Incor	rect settings r	may cause the devic	e to lose netw	vork connec	tivity.	
		Network		N	Miscellaneo	us	
H	Host Name:	CA_CDU		Board	d Location:	1 🗸	
MA	AC Address:	68:27:19:E1:	8C:A7	Воа	ard Usage:	1 🗸	
☑ E	nable DHCP						
	IP Address:	10.0.10.114					
	Gateway:	10.0.10.1					
Su	ubnet Mask:	255.255.255.	0				
Pr	imary DNS:	192.168.1.1					
Seco	ndary DNS:	0.0.0.0					
		Copyright © 2012	Save Configuration 2 - 2020 TEKWorx Limited.				

The new Host Name is shown after re-connecting.

Hostname: IIT682719E18CA7 FDS-CDU-Es

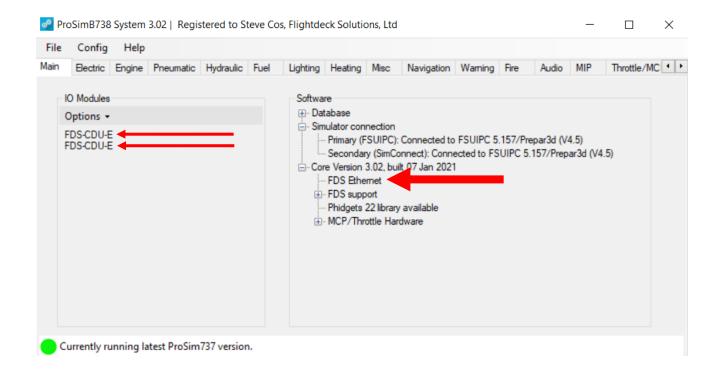
НОМЕ	DEVICE INFO	SUB BOARDS	SETTINGS	ADMIN		
New settings have been successfully saved.						
The board is now located at: http://CA_CDU/						
The board is now located at: http://or_obo/						
The board is now rebooting.						
Reconnecting in 19 seconds						

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You can enter the new CA_CDU Host Name in the Settings page and see the change. Top of the screen and in the Host Name box.

Hostname: (CA_CDU					FDS	-CDU-E
HOME	DEVI	CE INFO	SUB BOARDS		SETTINGS	ADM	IN
	CAUTION: Incom	rect settings	may cause the devi	ce to lo	ose network conne	ctivity.	
		Network			Miscellane	ous	
	Host Name:	CA_CDU			Board Location:	1 🗸	
	MAC Address:	68:27:19:E1	:8C:A7		Board Usage:	1 🗸	
	Enable DHCP						
	IP Address:	10.0.10.114					
	Gateway:	10.0.10.1					
	Subnet Mask:	255.255.255	5.0				
	Primary DNS:	192.168.1.1					
	Secondary DNS:	0.0.0.0					
		Convright @ 201	Save Configuration 2 - 2020 TEKWorx Limited		e reserved		





IO Modules list you will see "FDS-CDU-E" and FDS Ethernet in the Software List. You will see two "FDS-CDU-E" if you have 2 CDU's installed and configured. See above.



- Open the ProSimCDU Software.
- Setup the CDU software by selecting the CDU Position (Captain or First Officer)

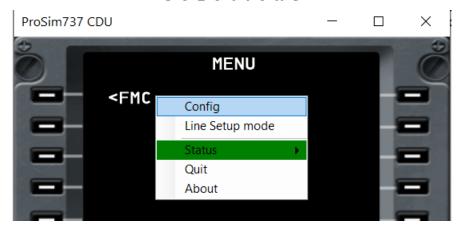


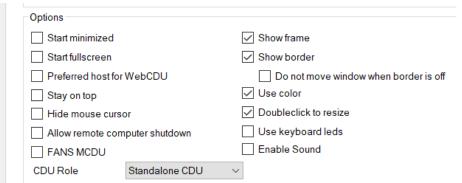




- Open the Config and Select the CDU Role (Captain or First Officer)
- We usually set the Font's to 14.04 for both
- Drag the CDU to the CDU screen.
- Follow the ProSim Instructions to use the CDU in Full screen.







- Open the Config and Select the CDU Role (Captain or First Officer)
- We usually set the Font's to 14.04 for both
- Drag the CDU to the CDU screen.
- Start Fullscreen checked
- Show Frame and Show Border Unchecked.
- Click OK

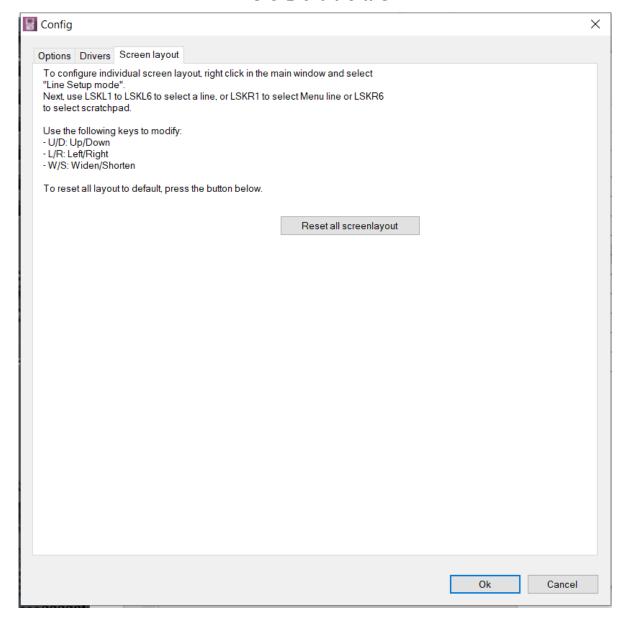




Follow the Line Setup as per the ProSim Instructions.

Instructions show up in Config





Follow the Line Setup as per the ProSim Instructions.

Instructions show up in Config Tab under Screen Layout

FLIGHTDECK — SOLUTIONS —



Power Supply with adapters, Ethernet Cable supplied along with an IBL Cable for CDU Key Backlighting.

Terminology

CDU Computer Display Unit

LSK Line Select Key

FDS Flightdeck Solutions Ltd

GFX Video Graphics Card

Integrated Back Lighting for FDS Panels

MIP Main Instrument Panel

OH Overhead

PED Center Aisle Stand or Pedestal

SBC SYSBoard Controller
TQ Throttle Quadrant

Ethernet 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. Devices

are connected to a Network Switch and each

device will have its own IP Address.