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02_Troubleshooting PanelDue Set-up

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INTRODUCTION

The Panel Due is a colour touch screen controller for the Duet and other 3dprinting electronics that support it. This guide covers unboxing, connecting. In case of issues with the updating the firmware through DuetWebControl this is an alternative method.

Step 1 — Introduction and Unboxing





- (i) Your Duet comes with the following items:
- PanelDue
- Connector kit
 - Ribbon cable
 - 4-wire interface cable
- Erase button
- Reset button

Step 2 — Connect to your PanelDue via USB



• Connect the Duet to your PC with the USB cable provided.

▲ Do not connect other power supplies at this stage.

Step 3 — Check your Firmware Version



- With the PanelDue connected to the Duet, and powered up, click on "Setup" on the display. Current firmware version is at the top of the 'Setup' screen.
- Once you know the firmware version your PanelDue is using, check for the latest version of the firmware in our repository <u>CaribouDuet</u> <u>Firmware</u>

Step 4 — Erase Firmware

	Panel Due firmware	version 1.24		
	Free RAM: 28728	Volume 3	en	TASE 0
	Calibrate touch	Mirror display	Invert display	SC1
	Dark theme 2	Brightness -	Brightness +	RESET
	Always dim	Info timeout 5	Clear settings	
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	Control	Print Conso	le Setup	uet3d

- Press and hold the "erase" button for 1-2 seconds.
- Press the "reset" button

Step 5 — Install Flash Programmer BOSSA

A BOSSA			—		×
&BOSS A	Flash Programmer fo	or Atmel SAM Devices	[About	
Serial Port					
~				Refresh	
F 1					
File					_
				Browse	
Write Options		Read Options	Gener	al Options	
Erase all	Boot to flash	Size:	Flash	Offset:	
Brownout detect	Brownout reset				
Lock	Security				
					_
Write	Verify	Read Info		Exit	

- The easiest way to update the firmware is using the Bossa application.
- Download Bossa from <u>Github</u> <u>archive</u>

Install the software with default settings

Step 6 — Connect your PanelDue to BOSSA

À BOSSA — 🗆	X of Device Manager ×
Abo	File Action View Help Image: Stripped strinped strinped s
Serial Port COM3 COM13 Brow	> Batteries > Biometric devices > Biometric devices > Cameras > Computer > Display adapters > Display adapters > Keyboards > Mice and other pointing devices
Write Options Read Options General Optio Erase all Boot to flash Size: Flash Offset: Brownout detect Brownout reset	IS IS IS IS IS IS IS IS
Write Verify Read Info Exit Not connected	Software components Software devices Software devices Sound, video and game controllers See Storage controllers

- Open BOSSA, and configure the correct COM port.
 - If unsure of the COM port number, press Windows Key + R on your keyboard and type <u>devmgmt.msc</u>
 - Your Duet will be listed under Ports (COM & LPT) as USB Serial Device (COM#) or similar. Use COM# as the com port in YAT.

Step 7 — Flashing the Firmware

🕽 BOSSA — 🗆 🗙	BOSSA –	- C X Bossa - C X
Riash Programmer for Atmel SAM Devices About	Flash Programmer for Atmel SAM Devices	About Rest Programmer for Atmel SAM Devices About
Serial Port	Serial Port	Serial Port
COM13 V Refresh	COM13 V	Refresh COM13 V Info X Refresh
File D:\Users\wschadow\Downloads\PanelDueFirmware1.24-Ce ibou.bin Browse	File Writing page 27 (7%)	File Write completed successfully D:\Users\wsc Browse
Write Options Read Options General Options Frase all Boot to flash Size: Flash Offset:	Write Options Gancel Grancel FI	General Options Write Options ueneral Options Flash Offset: If Isash offset: Flash Offset:
Brownout detect Brownout reset	Brownout detect Brownout reset	Brownout detect Brownout reset
Write Verify Read Info Exit	Write Verify Read Info	Exit Write Verify Read Info Exit
Connected Device: ATSAM4S4	Connected Device: ATSAM4S4	Connected Device: ATSAM4S4

- Browse for the correct firmware you have downloaded in a previous step
- Make sure to mark the selected fields!

Press "write" to flash the firmware



Step 8 — Check PanelDue



- Press the "reset" button once
- The Panel should start-up with the splash-screen
- After 3-4 seconds it will display the main menu.

Step 9 — Flashing the Firmware done!



• Insert wisdom here.