

August 19, 2024

Engineering Change Notification

This notice is to inform you of a change to the following OLED products:

NHD-2.7-12864WDW3 NHD-2.7-12864WDW3-CTP NHD-2.7-12864WDW3-M NHD-2.7-12864WDW3-P	NHD-2.7-12864WDW3M-CTP NHD-2.7-12864WDY3 NHD-2.7-12864WDY3-CTP NHD-2.7-12864WDY3-M	NHD-2.7-12864WDY3-SL20 NHD-2.7-12864WDY3M-CTP
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The boost converter IC used in the manufacturing of these displays has been discontinued by the IC manufacturer. This IC has been replaced by a new boost converter with a lower maximum input voltage.

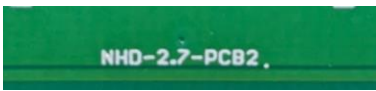
This change will only affect customers using jumper option #1 to power the boost converter separately from the display. The previous voltage range for BC_V_{DD} was **3V – 12V**. The new voltage range for BC_V_{DD} is **3V – 5.5V**.

Jumper Option #1 - Independent Supply Voltage for Boost Converter (BC_V _{DD})			
R4	R5	R7	Description
Open	Close	Open	Boost converter + OLED panel are powered from BC_V _{DD} (pin #3). OLED controller is still powered from V _{DD} (pin #2). This allows for increased efficiency through the boost converter by allowing a higher supply voltage at its input, BC_V _{DD} (pin #3).

Jumper Option #1						
Supply Voltage for Module	V _{DD}	-	3.0	3.3	3.5	V
Supply Current for Module	I _{DD}	V _{DD} =3.3V	-	190	305	μA
Supply Voltage for Boost Converter	BC_V _{DD}	-	3.0	5.0	5.5	V
Supply Current for Boost Converter	I _{DD,BC}	BC_V _{DD} =5.0V, 100% ON	-	200	215	mA

This change will not affect customers who are using the default jumper setting or jumper option #2.

The new displays will be labeled with a different revision control number on the back of the PCB, underneath the flex cable. See example below.

Old Design	New Design
	

We understand that every customer's application is unique, and therefore recommend you test and validate samples of the updated design.

Samples may be purchased by contacting us at nhsales@newhavendisplay.com. When ordering samples, please specify that you would like to receive the new version.

Please visit www.newhavendisplay.com or email nhtech@newhavendisplay.com for further information or assistance with this change.

