

# NHD-C160100CZ-RN-FBW

## COG (Chip-On-Glass) Liquid Crystal Display Module

NHD-	Newhaven Display
C160100-	160 x 100 pixels
CZ-	Model
R-	Reflective
N-	No backlight
F-	FSTN (+)
B-	6:00 view
W-	Wide Temp (-20°C ~ +70°C)
	<b>RoHS Compliant</b>

**Newhaven Display International, Inc.**

2511 Technology Drive, Suite 101

Elgin IL, 60124

Ph: 847-844-8795

Fax: 847-844-8796

[www.newhavendisply.com](http://www.newhavendisply.com)

[nhtech@newhavendisply.com](mailto:nhtech@newhavendisply.com)

[nhsales@newhavendisply.com](mailto:nhsales@newhavendisply.com)

## Document Revision History

Revision	Date	Description	Changed by
0	6/17/2007	Initial Release	-
1	9/11/2009	User guide reformat	BE
2	10/14/2009	Updated Electrical Characteristic	MC
3	12/08/2009	Updated Block Diagram, Pins 4 and 5, and Timing Characteristics	MC

## Functions and Features

- 160 x 100 pixels
- Built-in ST7528 controller
- +3.0V power supply
- 1/100 duty cycle; 1/11 bias
- RoHS Compliant



## Pin Description and Wiring Diagram

Pin No.	Symbol	External Connection	Function Description
1	CSB	MPU	Active Low chip select
2	RST	MPU	Active Low Reset signal
3	A0	MPU	Register select signal. A0=1: Data, A0=0: Command
4	/WR	MPU	Active LOW write signal
5	/RD	MPU	Active LOW read signal
6-13	DB0-DB7	MPU	Bi-directional 8-bit data bus.
14	VDD	Power Supply	Power supply for LCD and logic (+3.0V)
15	Vss	Power Supply	Ground
16	VOUT	Power Supply	Connect to 1uF cap to VSS or VDD
17	V4	Power Supply	1.0uF-2.2uF cap to Vss
18	V3	Power Supply	1.0uF-2.2uF cap to Vss
19	V2	Power Supply	1.0uF-2.2uF cap to Vss
20	V1	Power Supply	1.0uF-2.2uF cap to Vss

**Recommended LCD connector:** 0.5mm pitch pins. Molex p/n: 52746-2070

**Backlight connector:** --- **Mates with:** ---

