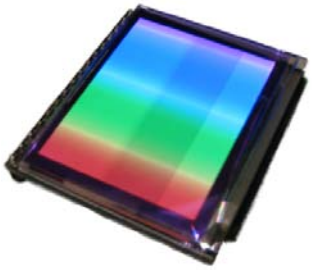
OLED-160X128-DEV-V1C

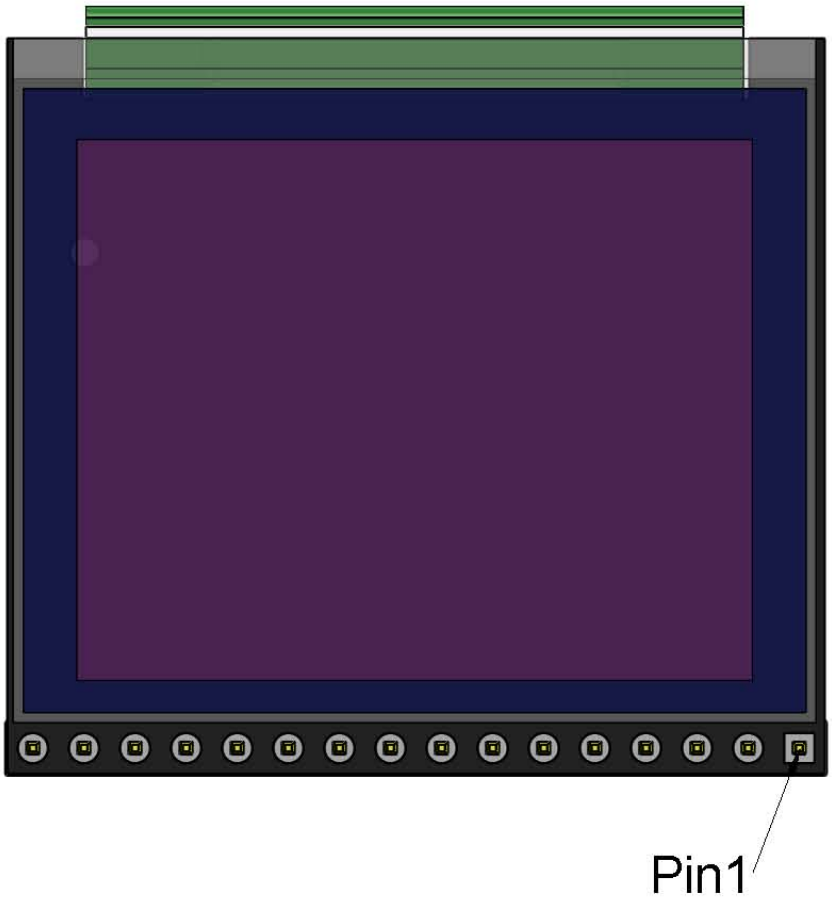


1. Description:

The OLED-160X128-DEV-V1C is a simple OLED development module for interfacing the 160X128 OLED. The board provides an on-board 14.5V voltage boost converter circuit which allows operate from a single 3.3V supply. A 16 pin 0.1”(2.54mm) pitch header is used for the interfacing with microcontroller on a standard bread board.

2. OLED-160X128-DEV-V1C Features:

- 160X128 Pixels
- 262,144 Colors
- OLED Driver: SEPS525
- 8bit/9bit parallel interface or 4-Wire SPI interface
- On Board voltage boost converter
- 16 pins 0.1” pitch header



3. Pinout Description:

<table>
<tr><th>Pin</th><th>Symbol</th><th>Type</th><th>Function</th></tr>
<tr><td>1</td><td>D9</td><td>I/O</td><td rowspan="9">Host Data Input/Output Bus
These pins are 9-bit bi-directional data bus to be connected with MCU data bus.
<table><tr><td>Jumper/R6</td><td>Description</td></tr><tr><td>Open</td><td>8_bit bus : D[17:10]
9_bit bus : D[17:9]</td></tr><tr><td>Shorted</td><td>D[17] SCL : Synchronous clock input
D[16] SDI : Serial data input
D[15] SDO : Serial data output</td></tr></table>*Short R6 to use serial mode.
Fix unused pins to the VSS level.</td></tr>
<tr><td>2</td><td>D17</td><td>I/O</td></tr>
<tr><td>3</td><td>D16</td><td>I/O</td></tr>
<tr><td>4</td><td>D15</td><td>I/O</td></tr>
<tr><td>5</td><td>D14</td><td>I/O</td></tr>
<tr><td>6</td><td>D13</td><td>I/O</td></tr>
<tr><td>7</td><td>D12</td><td>I/O</td></tr>
<tr><td>8</td><td>D11</td><td>I/O</td></tr>
<tr><td>9</td><td>D10</td><td>I/O</td></tr>
<tr><td>10</td><td>CMD</td><td>I</td><td>Selects the data/command
Low: command, High: parameter/data</td></tr>
</table>

11	CS	I	Chip Select Low: SEPS525 is selected and can be accessed. High: SEPS525 is not selected and cannot be accessed.
12	E/RD	I	Read or Read/Write Enable 80-system bus interface: read strobe signal (active low). 68-system bus interface: bus enable strobe (active high). When serial mode, fix it to VDD or VSS level.
13	R/WR	I	Write or Read/Write Select 80-system bus interface: write strobe signal (active low). 68-system bus interface: read/write select. Low: write, High: read. When serial mode, fix it to VDD or VSS level.
14	RES	I	Chip Reset Reset SEPS525 (active low)
15	+3.3V	P	Positive 3.3V-5V Power Supply
16	GND	P	Ground