



## LVDS Add On Board P/N 4162135-11

The LVDS add-on board P/N 4162135-11 design for dual pixel LVDS panels. It provides jumper setting to select the Data Enable (DE) signal on transmitter chips.



### Jumper Settings :

JP1- Clock phase selection (Default 2-3 closed)  
Change this setting to obtain best quality.

JP2 - Panel voltage selection

1-3, 2-4 closed : 12V panel

3-5, 4-6 closed : 3.3 / 5V panel (Default)

JP3 – Enable DE signal on signal or dual LVDS transmitter chip at even pixel side

1-2 closed : Enable DE signal on both LVDS transmitter chips (U1 & U2) (Default - Use for all panels)

2-3 closed : Enable DE signal on single LVDS transmitter chip (U1)

(Use for all panel except : NEC NL128102AC28-04 and NEC NL128102AC31-02A)

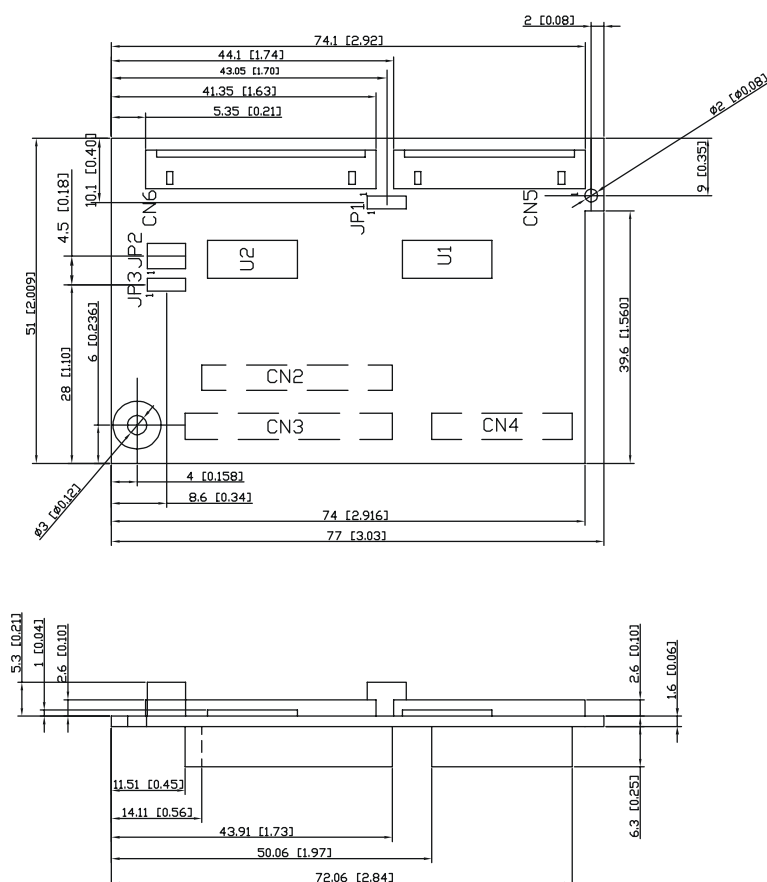
### Compatible with LVDS board :

| Old LVDS board | Jumper setting on LVDS board P/N 4162135-11                 |
|----------------|---|
| P/N 4162135-10 | JP1 : 2-3 closed ; JP2 : 1-3, 2-4 closed ; JP3 : 1-2 closed |
| P/N 4162147-00 | JP1 : 2-3 closed ; JP2 : 3-5, 4-6 closed ; JP3 : 1-2 closed |

### Use of connectors :

| Connector | Connector type        |
|-----------|-----------------------|
| CN2       | Hirose DF11-28DS-2DSA |
| CN3       | Hirose DF11-32DS-2DSA |
| CN4       | Hirose DF11-20DF-2DSA |
| CN5       | Hirose DF14-20P-1.25P |
| CN6       | Hirose DF14-25P-1.25P |

## Mechanical Drawing :



All dimensions are in MM [Inch]

## Pin Assignments :

CN5 - Hirose DF14-20P-1.25P

| PIN | SYMBOL   | DESCRIPTION                        |
|-----|----------|------------------------------------|
| 1   | NC       | No connection                      |
| 2   | GND      | Ground                             |
| 3   | OUTO3    | Positive differential LVDS data O3 |
| 4   | /OUTO3   | Negative differential LVDS data O3 |
| 5   | GND      | Ground                             |
| 6   | CLKOUTO  | Positive LVDS clock O              |
| 7   | /CLKOUTO | Negative LVDS clock O              |
| 8   | GND      | Ground                             |
| 9   | OUTO2    | Positive differential LVDS data O2 |
| 10  | /OUTO2   | Negative differential LVDS data O2 |
| 11  | GND      | Ground                             |
| 12  | OUTO1    | Positive differential LVDS data O1 |
| 13  | /OUTO1   | Negative differential LVDS data O1 |
| 14  | GND      | Ground                             |
| 15  | OUTO0    | Positive differential LVDS data O0 |
| 16  | /OUTO0   | Negative differential LVDS data O0 |
| 17  | GND      | Ground                             |
| 18  | GND      | Ground                             |
| 19  | VLCD     | Panel power supply                 |
| 20  | VLCD     | Panel power supply                 |

CN6 DF14-25P-1.25P

| PIN | SYMBOL   | DESCRIPTION                        |
|-----|----------|------------------------------------|
| 1   | VLCD     | Panel power supply                 |
| 2   | VLCD     | Panel power supply                 |
| 3   | VLCD     | Panel power supply                 |
| 4   | GND      | Ground                             |
| 5   | GND      | Ground                             |
| 6   | GND      | Ground                             |
| 7   | GND      | Ground                             |
| 8   | OUTE3    | Positive differential LVDS data E3 |
| 9   | /OUTE3   | Negative differential LVDS data E3 |
| 10  | GND      | Ground                             |
| 11  | CLKOUTE  | Positive LVDS clock E              |
| 12  | /CLKOUTE | Negative LVDS clock E              |
| 13  | GND      | Ground                             |
| 14  | OUTE2    | Positive differential LVDS data E2 |
| 15  | /OUTE2   | Negative differential LVDS data E2 |
| 16  | GND      | Ground                             |
| 17  | /OUTE1   | Negative differential LVDS data E1 |
| 18  | OUTE1    | Positive differential LVDS data E1 |
| 19  | GND      | Ground                             |
| 20  | OUTE0    | Positive differential LVDS data E0 |
| 21  | /OUTE0   | Negative differential LVDS data E0 |
| 22  | GND      | Ground                             |
| 23  | GND      | Ground                             |
| 24  | NC       | No connection                      |
| 25  | NC       | No connection                      |