



# MIPI and LVDS Expansion Daughter Card User Guide

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MIPI-LVDS-DC-UG-v1.1  
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[www.efinixinc.com](http://www.efinixinc.com)

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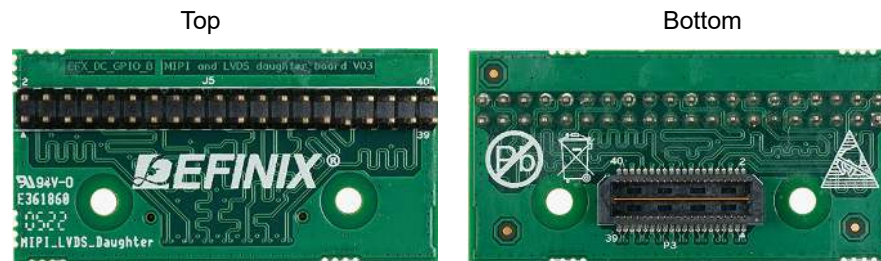
# Introduction

The MIPI and LVDS Expansion Daughter Card (part number: EFX\_DC\_GPIO\_B) converts the signals from the development board's QSE connector.



**Learn more:** Refer to the [MIPI and LVDS Expansion Daughter Card Schematics and BOM](#) for the part details and schematics.

Figure 1: MIPI and LVDS Expansion Daughter Card



**Warning:** The board can be damaged without proper anti-static handling.

## Supported Development Boards

You can use MIPI and LVDS Expansion Daughter Card with:

- Titanium Ti60 F225 Development Board
- Titanium Ti180 M484 Development Board
- Trion T120 BGA576 Development Board
- Trion T120 BGA324 Development Board
- Trion T20 BGA256 Development Board
- Trion T20 MIPI Development Board

## What's in the Box?

The MIPI and LVDS Expansion Daughter Card includes:

- MIPI and LVDS Expansion Daughter Card
- 2 standoffs
- 2 screws
- 2 nuts

## Features

- Bridges 40-pin QSE connector on the development board to a 40-pin header
- Power supplied from the development board; no external power required
  - Each pin supports up to 3 A

# Headers

*Table 1: MIPI and LVDS Expansion Daughter Card Headers*

Reference Designator	Description
P3	40-pin QTE connector bringing MIPI or LVDS signals, power, and GPIO pins from the development board.
J5	40-pin header.

## Headers P3 (QTE Connector) and J5 (40-Pin Header)

P3 is a 40-pin QTE connector to connect the daughter card to the QSE connector on the development board. J5 is a 40-pin header.

*Table 2: P3 and J5 Pin Assignments*

Pin Number	Pin Name	Description	Pin Number	Pin Name	Description
1	GPIO_H01	User I/O	2	GPIO_H02	User I/O
3	GPIO_H03	User I/O	4	GPIO_H04	User I/O
5	GND	Ground	6	GND	Ground
7	GPIO_H07	User I/O	8	GPIO_H08	User I/O
9	GPIO_H09	User I/O	10	GPIO_H10	User I/O
11	GND	Ground	12	GND	Ground
13	GPIO_H13	User I/O	14	GPIO_H14	User I/O
15	GPIO_H15	User I/O	16	GPIO_H16	User I/O
17	GND	Ground	18	GND	Ground
19	GPIO_H19	User I/O	20	GPIO_H20	User I/O
21	GPIO_H21	User I/O	22	GPIO_H22	User I/O
23	GND	Ground	24	GND	Ground
25	GPIO_H25	User I/O	26	GPIO_H26	User I/O
27	GPIO_H27	User I/O	28	GPIO_H28	User I/O
29	GND	Ground	30	GND	Ground
31	GPIO_H31	User I/O	32	GPIO_H32	User I/O
33	GPIO_H33	User I/O	34	GPIO_H34	User I/O
35	GND	Ground	36	GND	Ground
37	GPIO_H37	User I/O	38	GPIO_H38	User I/O
39	GPIO_H39	User I/O	40	GPIO_H40	User I/O

# Installing Standoffs

Before using the board, attach the standoffs with the screws provided in the kit.



**Warning:** You can damage the board if you over tighten the screws. Tighten all screws to a torque between  $4 \pm 0.5$  kgf/cm and  $5 \pm 0.5$  kgf/cm.

## Revision History

*Table 3: Revision History*

Date	Version	Description
October 2022	1.1	Added part number. (DOC-917)
April 2022	1.0	Initial release.