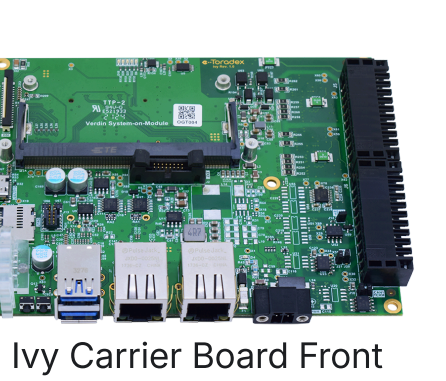
Getting Started
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Ivy Carrier Board



Ivy Carrier Board Front

(Double-Click to Zoom)

Getting Started

This section contains initial information needed to set-up the Ivy Carrier Board for the first time.

Recommendation for the first-time order

Ivy Carrier Board is available at the Toradex Webshop in two possible models: Ivy Carrier Board and Ivy Plus Carrier Board. Please check the Ivy vs Ivy Plus section for more details about each model. Toradex recommends ordering the following additional products for your first-time order:

- A Verdin Computer on Module
- Verdin Industrial Heatsink

All the products can be ordered online at Toradex Webshop.

Getting started

The Verdin SoMs come with Toradex Easy Installer pre-installed. Once you power-on the board, it will display a list of available images to be installed. Check out how to get started with the Toradex Easy Installer:

- Toradex Easy Installer - Getting Started

Additional information

For information on how to re-flash an operating system or image on the computer on module please check the Toradex Easy Installer article:

- Toradex Easy Installer

We have quick video tutorials:

- Toradex on YouTube

For developing software on the platform, please browse through the list of knowledge-base articles provided in the link below:

- Getting Started with Torizon on Toradex Arm Modules

Having trouble?

Please contact our technical support. Various option of technical support are mentioned below:

- Technical Support Channels

Hardware Features

Check the hardware features on the product page in toradex.com:

- Ivy Carrier Board

Block Diagram

Ivy Carrier Board V1.1

Ivy Carrier Board V1.1

Ivy Carrier Board V1.0

Ivy Carrier Board V1.0

Datasheets

Ivy Carrier Board V1.1

Ivy Carrier Board V1.1

Ivy Carrier Board V1.0

Ivy Carrier Board V1.0

Ivy Carrier Board Preliminary Release

Ivy Carrier Board Preliminary Release

Design Resources

INFO

The resources provided here are for informational purposes only and are intended to aid developers in understanding the existing product design for development and helping integrating the product. The schematics are not intended to be copied or used as a reference design.

Ivy Carrier Board V1.1 Design Data

- Ivy Carrier Board V1.1 Altium project
- Ivy Carrier Board V1.1 Assembly Drawing
- Ivy Carrier Board V1.1 PDF Schematics
- Ivy Carrier Board V1.1 Bill of Materials (BOM)
- Ivy Plus Carrier Board V1.1 PDF Schematics
- Ivy Plus Carrier Board V1.1 Bill of Materials (BOM)

Ivy Carrier Board V1.0 Design Data

- Ivy Carrier Board V1.0 Altium project
- Ivy Carrier Board V1.0 Assembly Drawing
- Ivy Carrier Board V1.0 PDF Schematics
- Ivy Carrier Board V1.0 Bill of Materials (BOM)
- Ivy Plus Carrier Board V1.0 PDF Schematics
- Ivy Plus Carrier Board V1.0 Bill of Materials (BOM)

Verdin Specifications

- Verdin Family Specification

Ivy Carrier Board V1.1 Mechanical Models

You can download a basic 3D model for Ivy Carrier Board V1.1 here:

- SolidWorks CAD model 3D EASM model
  - You can download the free eDrawings model viewer from SolidWorks here
- 3D STEP model that can be opened and modified in any 3D CAD
- 3D PDF model that can be opened in Adobe Reader

Ivy Carrier Board V1.0 Mechanical Models

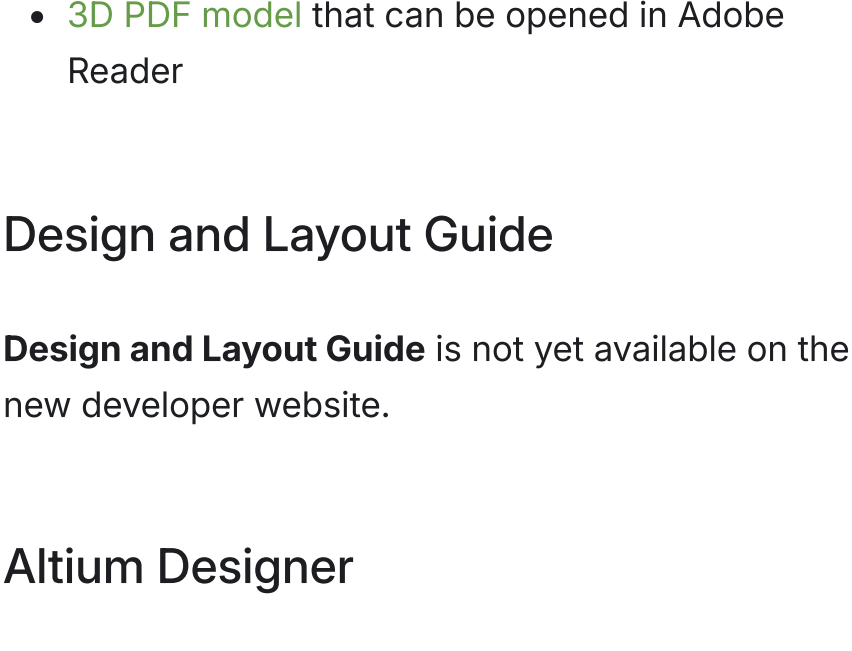
You can download a basic model for the Ivy Carrier Board V1.0 here:

- SolidWorks CAD model 3D EASM model
  - You can download the free eDrawings model viewer from SolidWorks here
- 3D STEP model that can be opened and modified in any 3D CAD
- 3D PDF model that can be opened in Adobe Reader

Design and Layout Guide

Design and Layout Guide is not yet available on the new developer website.

Altium Designer



Ivy Mating Connectors

Connectors J5 and J6

Connector Side	Manufacturer	PN
Ivy connector(placed in the board)	Weidmueller	1728700000
Mating connector	Weidmueller	1277760000
Mating connector	Weidmueller	1277940000

Ivy vs Ivy Plus Comparison

Feature	0175XXXX - Ivy	0178XXXX - Ivy Plus
Power Supply Range	8 to 32V (12V or 24V nominal)	21 to 72V (24V or 48V nominal)
CAN	2X (with transceiver, non-isolated)	2X (with transceiver, isolated)
RS-232	1X (with transceiver, non-isolated)	1X (with transceiver, isolated)
RS-485	1X (with transceiver, non-isolated)	1X (with transceiver, isolated)
Gigabit ETH	2	2
Analog Input	Non-isolated	Isolated
TPM	Non included	Included
FRAM	Non included	32KB
All other features	Yes	Yes

Ivy Compatibility

Verdin Modules	Product Number	USB	Ethernet	PCIe
Verdin AM62 Dual 1GB ET	0073XXXX	2x Host / 1x OTG	2x	No
Verdin AM62 Dual 1GB IT	0074XXXX	2x Host / 1x OTG	2x	No
Verdin AM62 Dual 1GB Wi-Fi / Bluetooth IT	0075XXXX	2x Host / 1x OTG	2x	No
Verdin AM62 Quad 2GB Wi-Fi / Bluetooth IT	0076XXXX	2x Host / 1x OTG	2x	No
Verdin AM62 Solo 512MB	0071XXXX	2x Host / 1x OTG	2x	No
Verdin AM62 Solo 512MB Wi-Fi / Bluetooth IT	0072XXXX	2x Host / 1x OTG	2x	No
Verdin iMX8M Mini DualLite 1GB	0057XXXX	2x Host / 1x OTG	1x	1x Single Lane Gen 2
Verdin iMX8M Mini DualLite 1GB Wi-Fi / Bluetooth IT	0060XXXX	2x Host / 1x OTG	1x	1x Single Lane Gen 2
Verdin iMX8M Mini Quad 2GB IT	0059XXXX	2x Host / 1x OTG	1x	1x Single Lane Gen 2
Verdin iMX8M Mini Quad 2GB Wi-Fi / Bluetooth IT	0055XXXX	2x Host / 1x OTG	1x	1x Single Lane Gen 2
Verdin iMX8M Mini Quad 2GB Wi-Fi / Bluetooth IT (No CAN)	0068XXXX	2x Host / 1x OTG	1x	1x Single Lane Gen 2
Verdin iMX8M Plus Quad 2GB Wi-Fi / Bluetooth IT	0064XXXX	2x Host / 1x OTG	2x	1 Single Lane Gen 3
Verdin iMX8M Plus Quad 4GB IT	0063XXXX	2x Host / 1x OTG	2x	1 Single Lane Gen 3
Verdin iMX8M Plus Quad 4GB Wi-Fi / Bluetooth IT	0058XXXX	2x Host / 1x OTG	2x	1 Single Lane Gen 3
Verdin iMX8M Plus Quad 8GB Wi-Fi / Bluetooth IT	0070XXXX	2x Host / 1x OTG	2x	1 Single Lane Gen 3
Verdin iMX8M Plus QuadLite 1GB IT	0065XXXX	2x Host / 1x OTG	2x	1 Single Lane Gen 3

Compatible Products

- Verdin AM62
- Verdin iMX8M Mini
- Verdin iMX8M Plus
- Verdin Industrial Heatsink
- Capacitive Touch Display 10.1" DSI
- Capacitive Touch Display 7" DSI

Revision History

▸ Click to See the Product Numbering Scheme

A specific product revision has a lifecycle defined by the product state. Learn more about it on the Product Change Notifications.

Ivy Carrier Board

PN: 0175

Product #	Product Description	Changes from Previous Version	Release Date
01751000	Ivy V1.0A	Preliminary Version	Q4 2024
01751100	Ivy V1.1A	Fixed Errata HAR-11662 Fixed Errata HAR-11742 Changed switches **PN** - S1 and S2 Other minor changes and fixes	Q3 2025

Ivy Plus Carrier Board

PN: 0178

Product #	Product Description	Changes from Previous Version	Release Date
01781000	Ivy Plus V1.0A	Preliminary Version	Q4 2024
01781100	Ivy Plus V1.1A	Fixed Errata HAR-11662 Fixed Errata HAR-11742 Other minor changes and fixes	Q3 2025

Errata/Known Issues

Errata Document

Ivy Carrier Board Errata

Edit this page

Last updated on ***Oct 20, 2025***

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Dahlia Carrier Board »

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