IAS1-ADPTR-DM3D2-GEVB

Demo3 IAS Adapter User's Manual

EVBUM2759/D

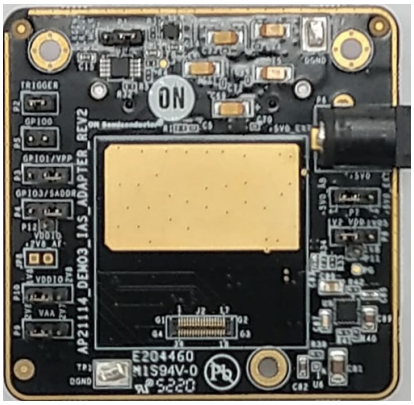
Demo3 IAS Adapter Board Overview

IAS1−ADPTR−DM3D2−GEVB adapter board is created to support the evaluation of IAS modules on the DEMO3 evaluation baseboard. Since the IAS eco−system consists of modules with various image sensors from **onsemi**, and may have different pin definition, the adapter board needs to be configured before power−on according to the sensor (module) that is plugged in. This document describes the necessary steps required for the initial configuration. Please refer to the module datasheet and IAS1−ADPTR−DM3D2−GEVB board schematics for a more comprehensive use of the IAS adapter that is not covered in this document.

Output Voltage

Before powering on the board, please refer to the respective module datasheet in order to understand the supply voltages as well as the module pin assignment. Make sure to read through this guide before powering on the IAS−ADPTR−M3D2−GEVB adapter board. Refer to Figure 1 for the location of the jumpers used to configure the power supplies.

BOARD PHOTO



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Power Supplies

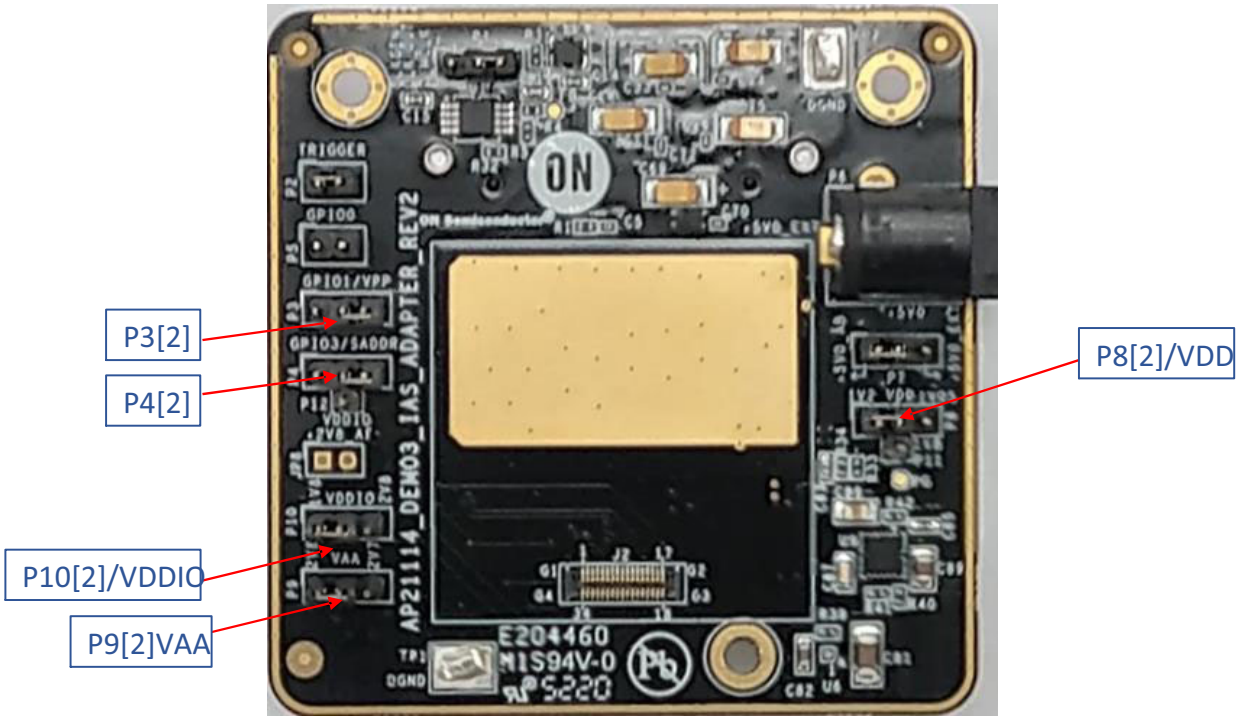

Figure 1. Demo3 IAS Adapter Board

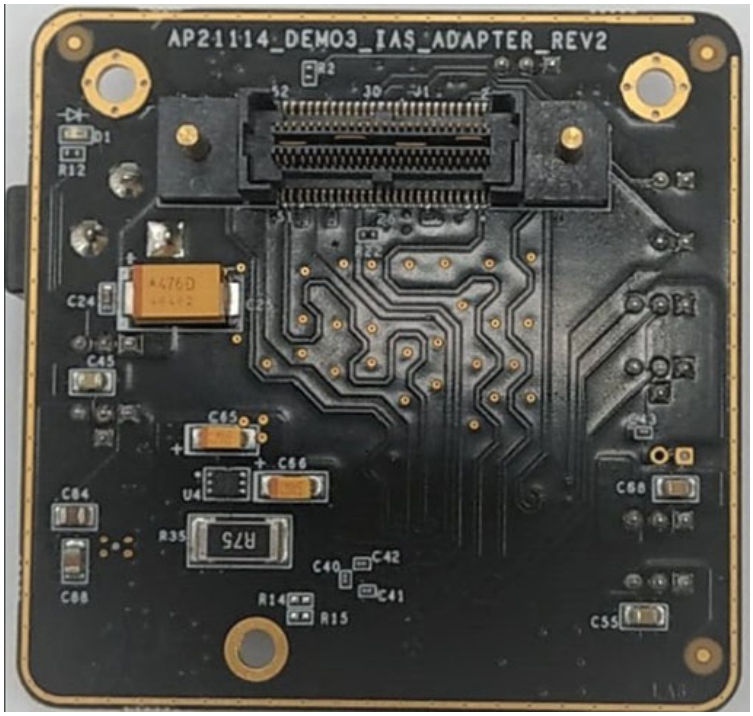

Figure 2.

1. VDD: P8 is used to configure VDD supply for the IAS modules.
- For 1.2 V VDD: Connect P8[2] (pin 2 of P8) to P8[1] (1V2)
- For 1.05 V VDD: Connect P8[2] to P8[3] (1V05)
- For 1.8 V VDD: Connect P8[2] to P11 (1V8)

2. VAA: P9 is used to configure VAA supply.
   - For 2.7 V VAA: Connect P9[2] to P9[3] (2V7)
   - For 2.8 V VAA: Connect P9[2] to P9[1] (2V8)
3. VDDIO: P10 is used to configure VDDIO supply.
   - For 1.8 V VDDIO: Connect P10[2] to P10[1]
- For 2.8V VDDIO: Connect P10[2] to P10[3]

4. P4[2] is connected to pin 34 of the IAS module. Please refer to the respective module datasheet for pin definition.
- VDD_AF: P4[1] provides 2.8 V supply for VDD_AF.
- SADDR:
  - To ground SADDR, connect P4[2] to P4[3]
  - To connect SADDR to VDDIO, connect P4[2] to P12 (VDDIO)
- GPI3: Connect based on the defined use case for GPI3.

5. P3[2] is connected to pin1 of the IAS module. Please refer to the respective module datasheet for pin definition.
- VDD_AF: P3[1] provides 2.8 V supply for VDD_AF.
- GPIO1: Please connect accordingly based on the defined use case for GPIO1
- VPP: Connect according to sensor Datasheet.

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