

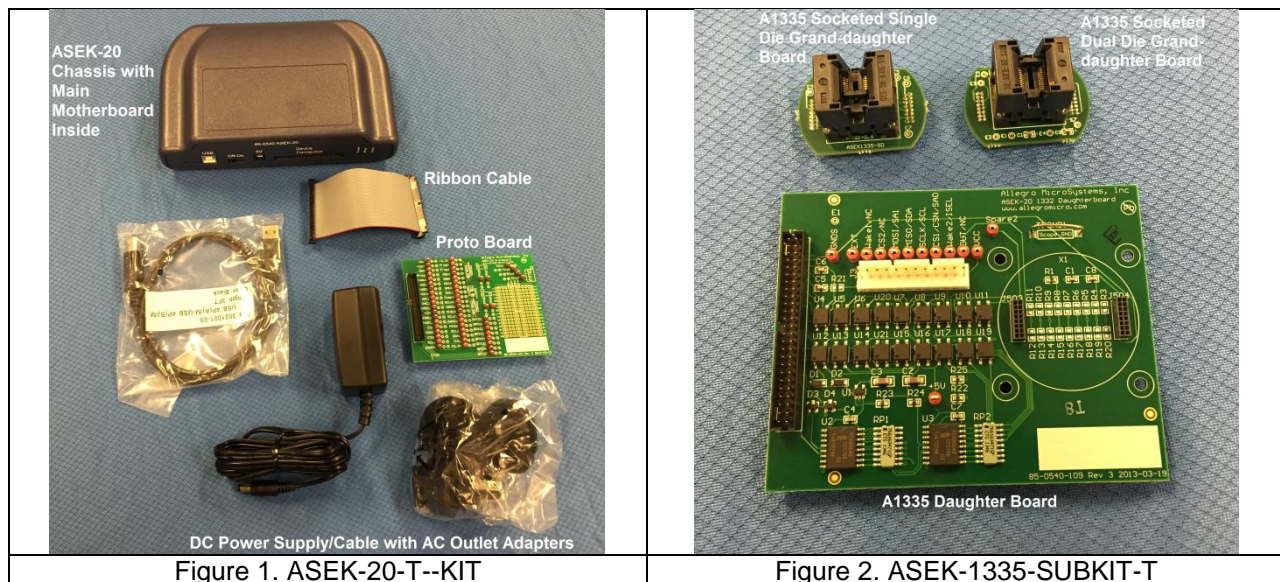
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ASEK-1335-T-KIT Quick Guide

The ASEK-1335-T-KIT as described below is for the purpose of evaluating the A1335 device.

ASEK-1335-T-KIT Bill of Materials

- ASEK-20 Kit (Part # 85-0540-600)
 - ASEK-20 Chassis with main Motherboard inside (85-0540-004)
 - USB Communications Cable
 - DC Power Supply/Cable with AC Outlet Adapters
 - Proto Board (Part # 85-0540-103)
 - Ribbon Cable (Part # 85-0540-300)
- ASEK-1335-SUBKIT-T:
 - A1335 Daughterboard (Part #: 85-0540-109 / Stenciled A1332)
 - A1335 Socketed single die grand-daughter board (Part #: 85-0723 / Stenciled ASEK1335-SD)
 - A1335 Socketed dual die grand-daughter board (Part #: 85-0716)



Instructions for Configuring ASEK-1335-T-KIT with Device On-Board

1. Connect one end of the USB communications cable to a personal computer
2. Connect the other end of the USB communications cable to the “USB” port on the ASEK-20 chassis
3. Connect the ribbon cable to the J2 connector on the daughterboard (85-0540-109)
4. Connect the other end of the ribbon cable to the “Device Connection” port on the ASEK-20 chassis
5. Mount the socketed grand-daughterboard (either 85-0723 or 85-716) onto the daughter board (85-0540-109)

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6. Connect the DC Power Supply/Cable to the 5V port on the ASEK-20 chassis
7. Plug in the DC Power Supply to a 110V/220AC 60/50Hz outlet with the proper adapter
8. Place A1335 device in grand-daughter board (85-0676) socket

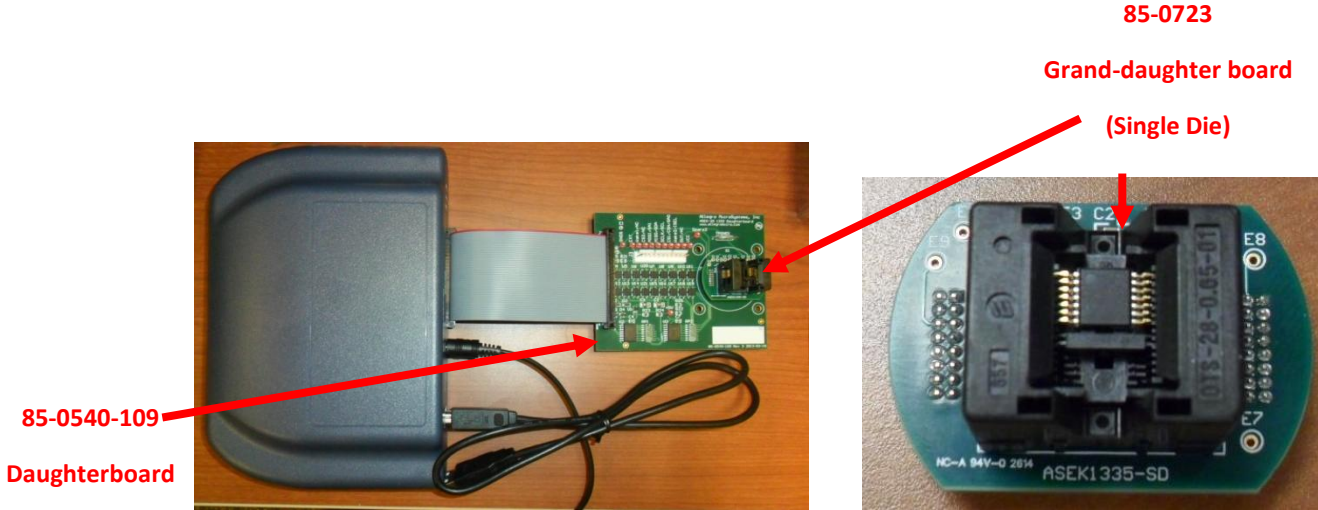


Figure 3. Setup of ASEK-1335-T-KIT

Configuring ASEK-1335-T-KIT for Off-Board Prototyping

The A1335 daughterboard allows off-board connections via a 12-pin header, seen in Figure 4 as component J3. This connector may be used in evaluating external prototyping modules.

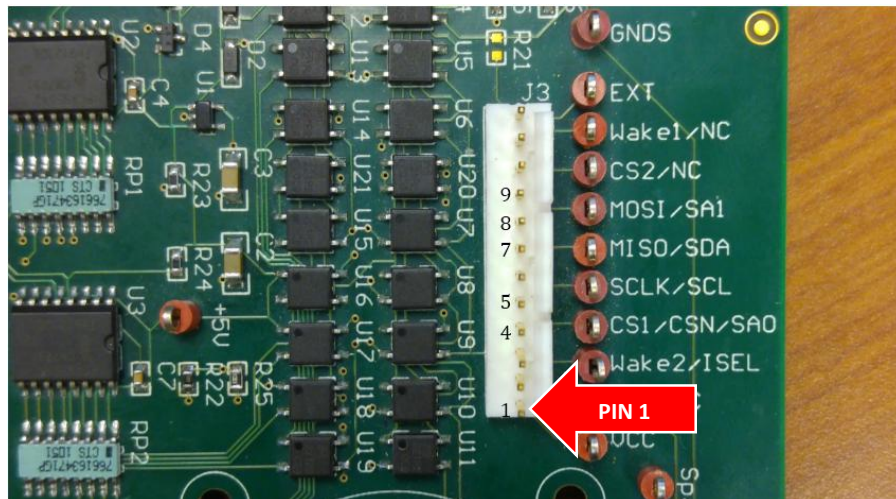


Figure 4. A1335 Daughterboard (85-0540-109, Rev 6), SPI Header Pins Labeled

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1. Follow steps 1-4 of on-board configuration instructions
2. Using a ribbon cable or individual wires, connect the numbered pins on the header to the corresponding pins in the single-die sensor module. A wiring diagram for SPI communication is shown in Figure 5 below (see appendix for I²C and Manchester interfacing)
3. Connect the DC Power Supply/Cable to the 5V port on the ASEK-20 chassis
4. Plug in the DC Power Supply to a 110V/220AC 60/50Hz outlet with the proper adapter

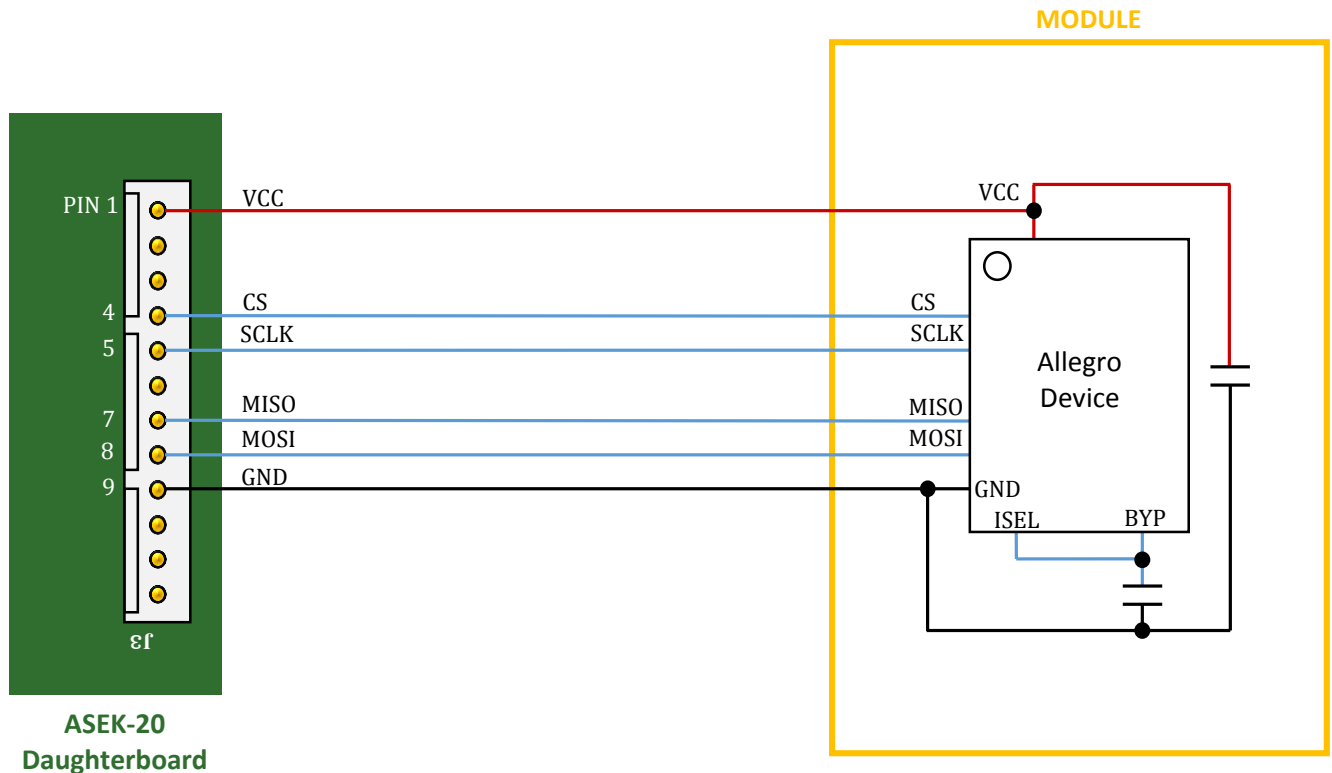


Figure 5. A1335 Daughterboard J3 Header Wiring Diagram (SPI Mode)

Download Software GUI for ASEK-1335-T-KIT

In order to download the programmer software, register through the software portal below:

<https://registration.allegromicro.com/login>

ASEK-20 USB Driver

If the appropriate COM port driver is not installed automatically, latest versions may be found on the FTDI website below:

<http://www.ftdichip.com/Drivers/VCP.htm>

A1335 Sample Devices

A1335 samples are not included with the ASEK-1335-T-KIT. Please contact your local FAE or factory for samples.

Appendix

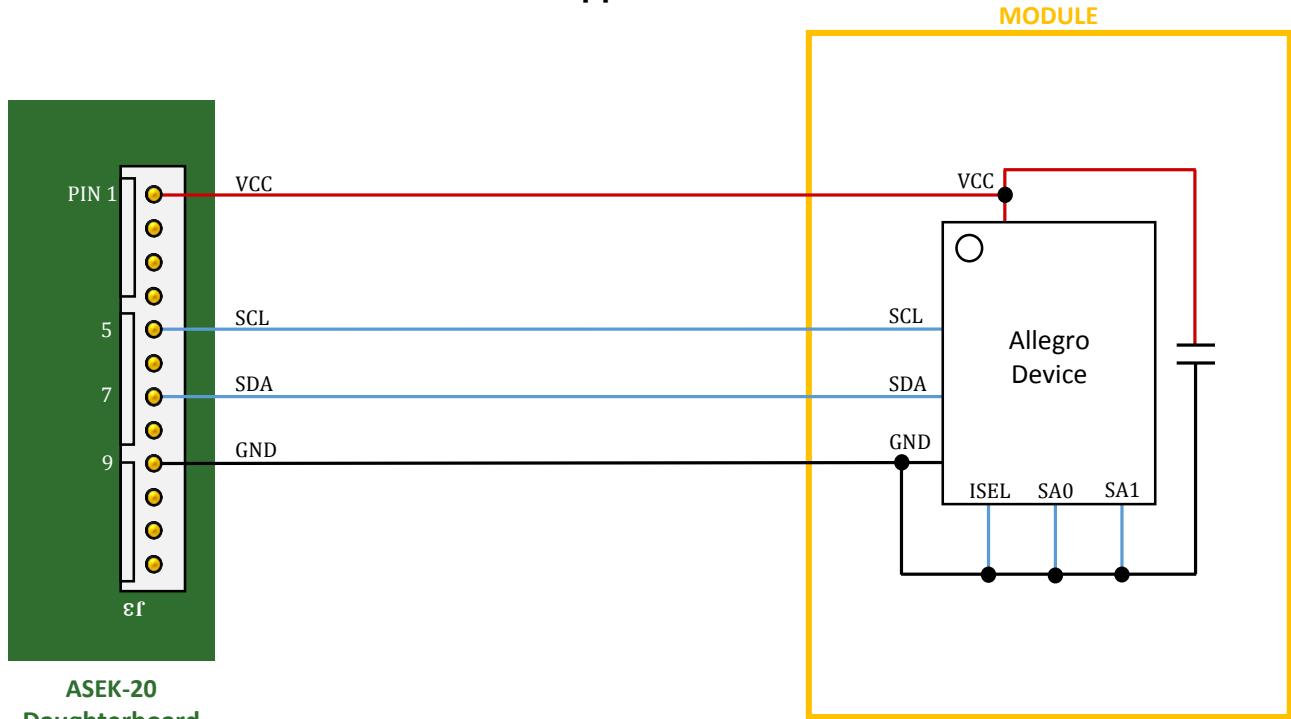


Figure A-1. A1335 Daughterboard J3 Header Wiring Diagram (I²C Mode)

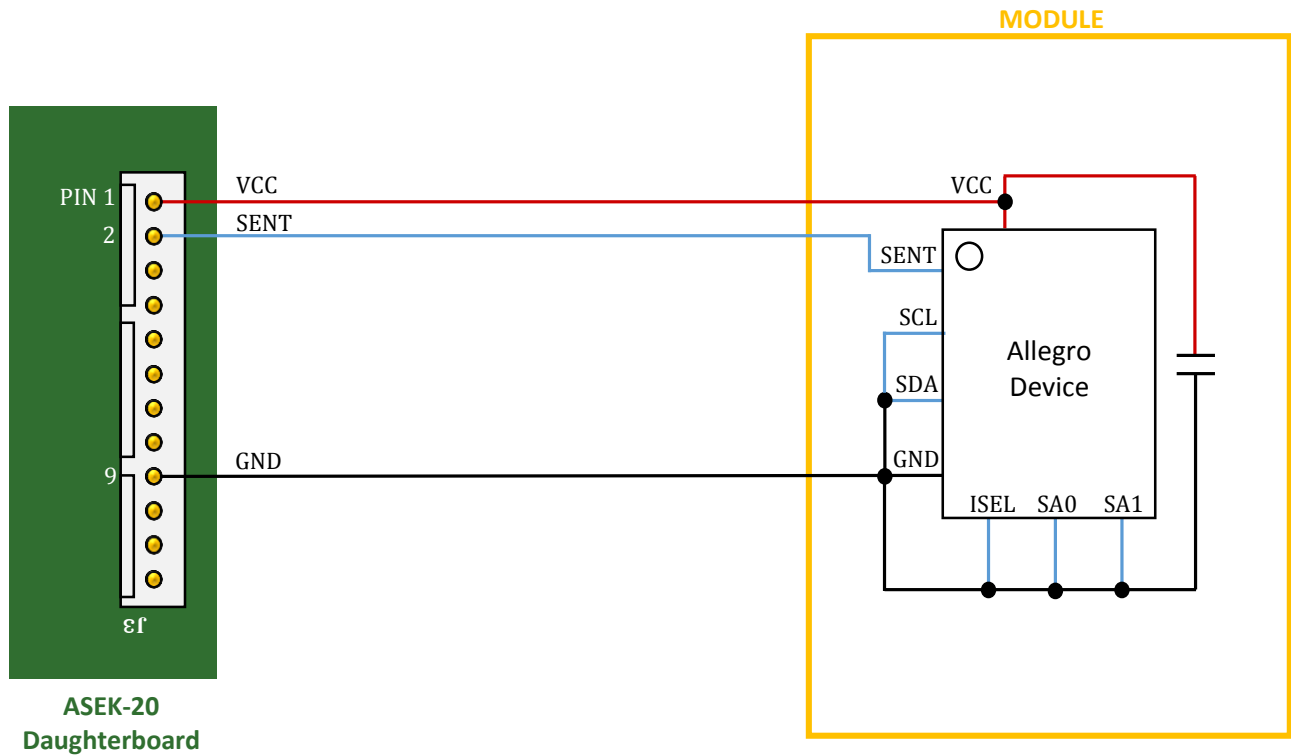


Figure A-2. A1335 Daughterboard J3 Header Wiring Diagram (Manchester Mode)

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Revision History Table

Revision	Change Description	Res.	Page(s)	Date
-	Original release	WW	All	7/31/2014
1	Removed line not applicable to A1335	WW	1	8/11/2014
2	Added link for software portal and text edits	NK		3/30/2015
3	Added J3 header configuration instructions and wiring diagrams; text edits	AR	All	3/11/2016