

NXP OM-SE051ARD-H EdgeLock SE051H Arduino Compatible Development Kit User Guide

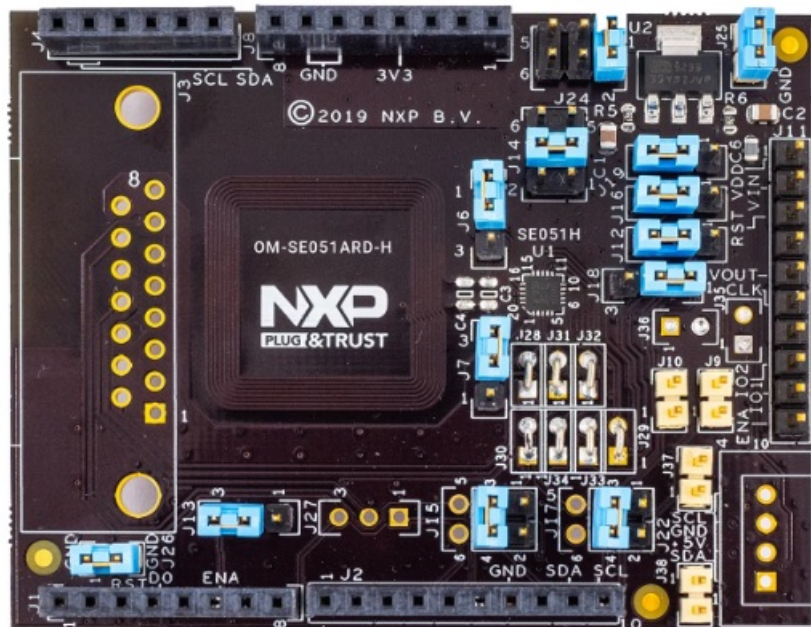
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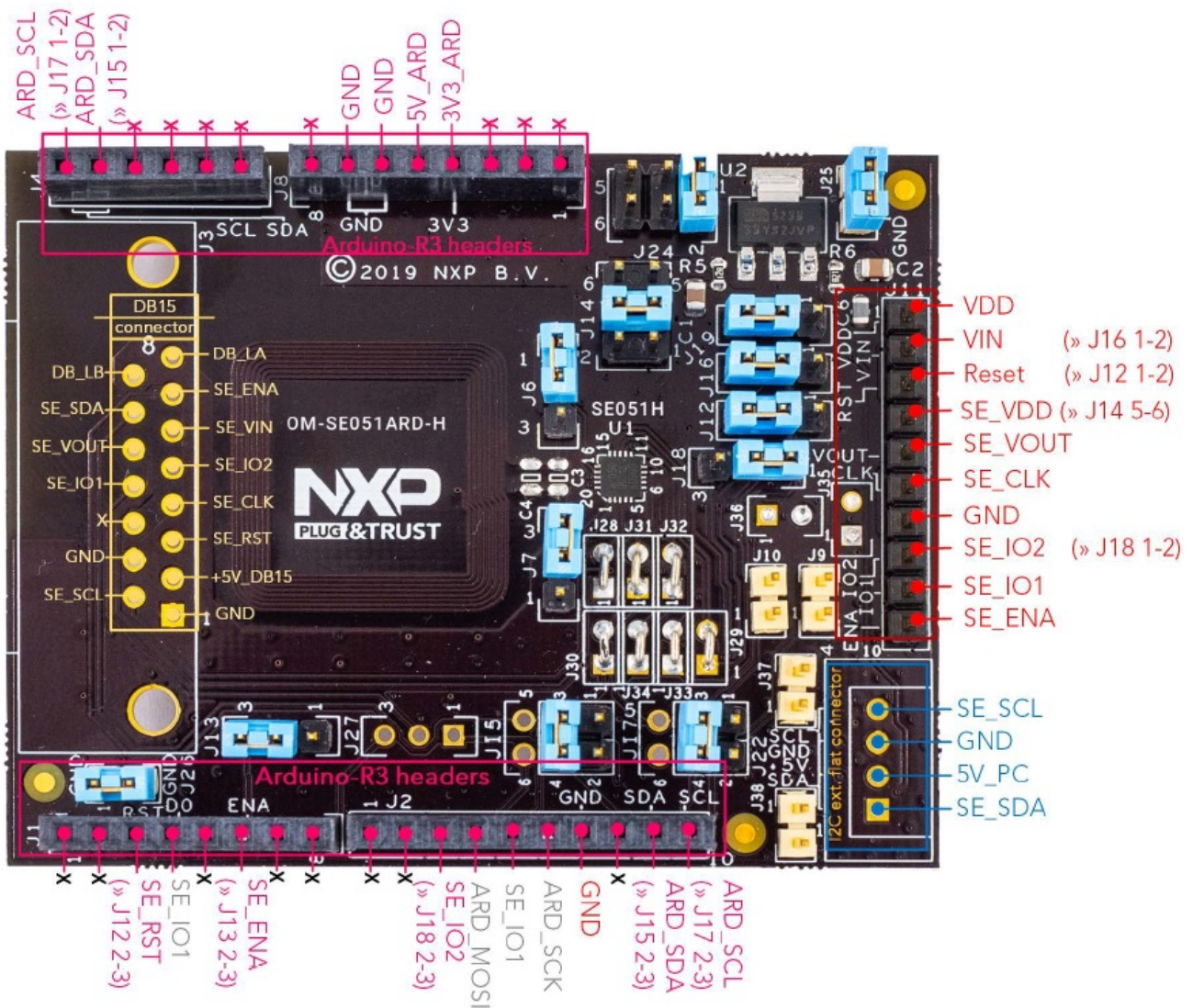


NXP OM-SE051ARD-H EdgeLock SE051H Arduino Compatible Development Kit



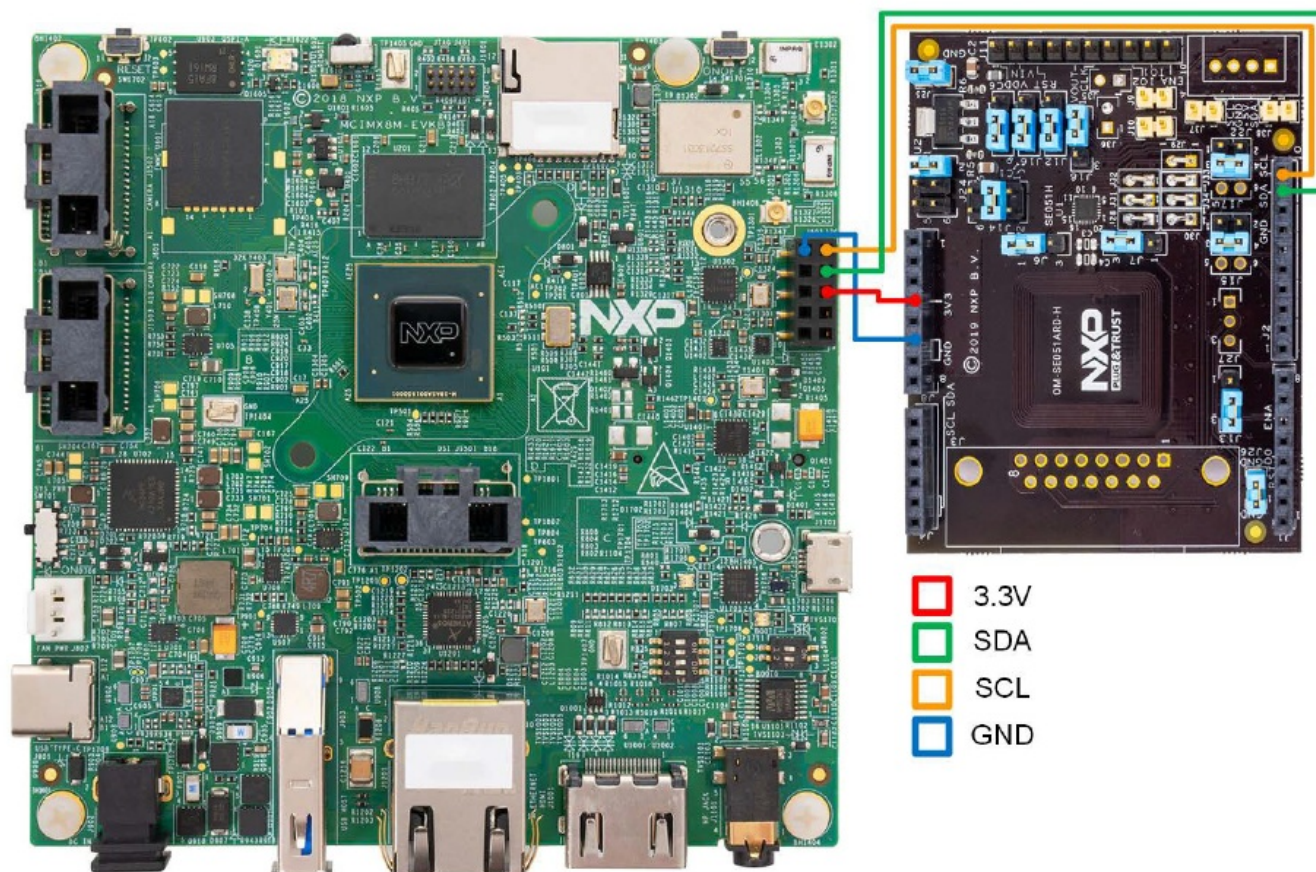
Get to know the OM-SE051ARD-H board

Please visit www.nxp.com/SE051H for more information.



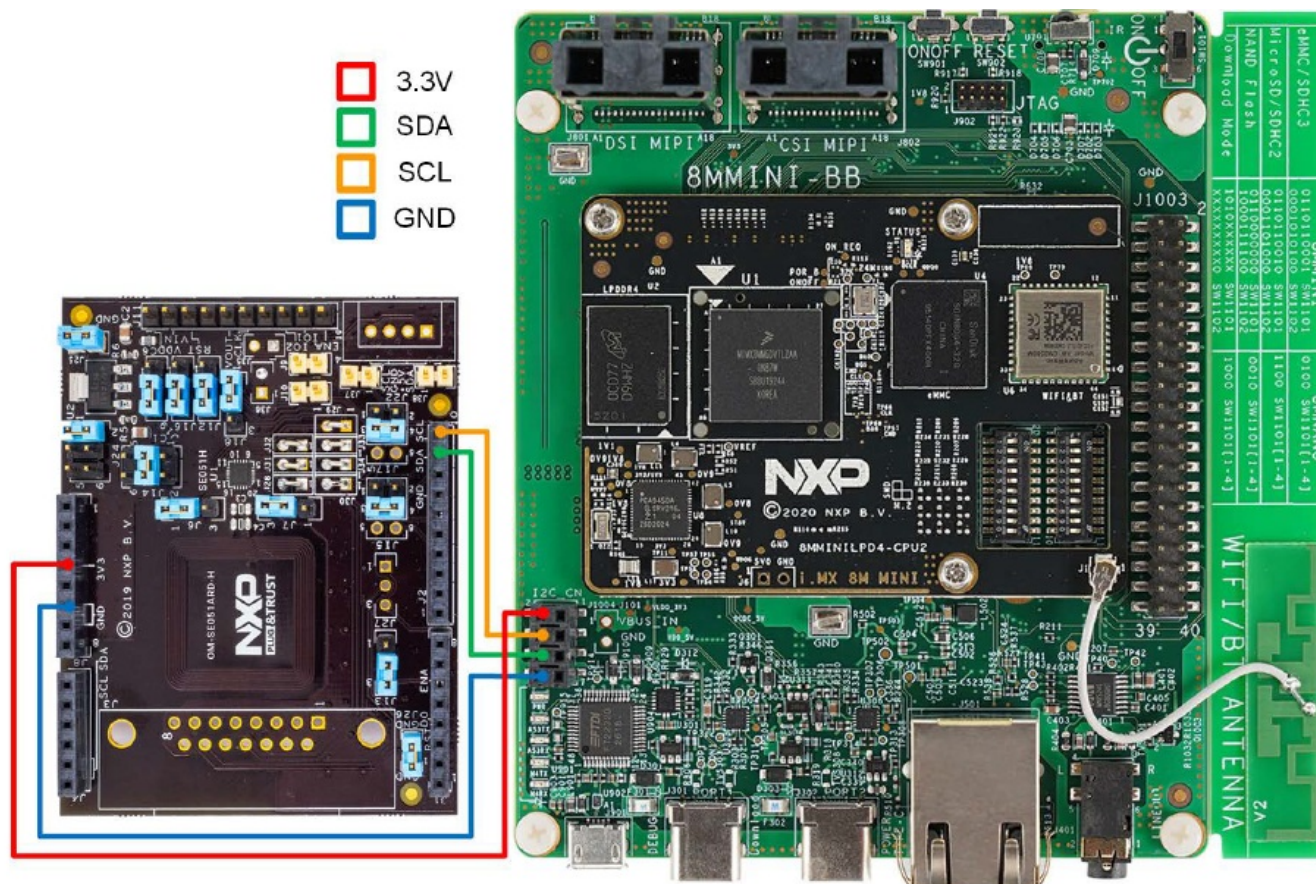
Jumper	Description	Configuration	Default
J6, J7	Antenna	1-2: via DB15 connector 2-3: Internal antenna	J6 1-2, J7 2-3 (no antenna)
J9, J10	I2C Master pull up connection	Open: not connected 1-2: 3k3 Ohm	Open
J12	Reset	1-2 RST on J11:3 2-3 RST on Arduino	2-3
J13	SE051_ENA pin routing	1-2: ENA low, VOUT not connected to VIN 2-3: ENA controlled by Arduino pin J1:6	2-3
J14	SE051_VCC pin routing	1-2: Routed to VDD supply voltage (see J19) 3-4: Routed to SE_Vout pin 5-6: Routed to J11:4 pin	1-2
J15	I2C Slave SDA connection	1-2: Arduino R3 J4:5 3-4: Arduino R3 J2:9	3-4
J16	SE051_Vin supply	1-2: Supplied by J11:2 pin 2-3: Supplied by the VDD (see J19)	2-3
J17	I2C Slave SCL connection	1-2: Arduino R3 J4:6 3-4: Arduino R3 J2:10	3-4
J18	SE051_IO2 routing	1-2: Routed to J11:9 2-3: Routed to J2:3	1-2
J19	VDD supply voltage	1-2: From LDO 2-3: From 3V3_ARD pin	2-3
		1-2: From 5V_PC (USB I2C flat connector) 3-4: From 5V_DB15 pin	1-2
J24	VDD supply selection for LDO (if LDO is used – see J19)	5-6: From 5V_ARD pin	
J37, J38	I2C Slave bus pull up configuration	Open: 3k3 Ohm (I2C fast mode) 1-2: 660 Ohm (I2C high speed mode)	Open

Connect OM-SE051ARD-H to i.MX 8M board MCIMX8M-EVK



Connect OM-SE051ARD-H to i.MX 8M Mini 8MMINID4-EVK

Connect OM-SE051ARD-H to i.MX 8M Nano 8MNANOLPD4-EVK



EdgeLock SE051H

Visit www.nxp.com/SE051H for more information about the SE051H product range.

SUPPORT

Visit www.nxp.com/support for a list of phone numbers within your region.

WARRANTY

Visit www.nxp.com/warranty for complete warranty information

Get Started

Download installation software and documentation at www.nxp.com/SE051H

Reference documents: nxp.com: AN13539, OMSE05xARD Hardware Overview

www.nxp.com/SE051H


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Part Number: OM-SE051ARD-H

PLUG & TRUST DEVELOPMENT PLATFORM

Documents / Resources

 <p>OM-SE051ARD-H EdgeLock SE051H Arduino Compatible Development Kit</p>	<p>NXP OM-SE051ARD-H EdgeLock SE051H Arduino Compatible Development Kit [pdf] Use r Guide</p> <p>OM-SE051ARD-H, EdgeLock SE051H, Arduino Compatible Development Kit, EdgeLock SE051H Arduino Compatible Development Kit, OM-SE051ARD-H Arduino Compatible Development Kit, OM-SE051ARD-H EdgeLock SE051H Arduino Compatible Development Kit, Compatible Development Kit, Development Kit</p>
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References

- [NXP® Semiconductors Official Site | NXP Semiconductors](#)
- [EdgeLock SE051H | IoT Secure Element for Matter Onboarding via NFC | NXP Semiconductors](#)
- [Support | NXP Semiconductors](#)
- [Returns and Warranty Information | NXP Semiconductors](#)