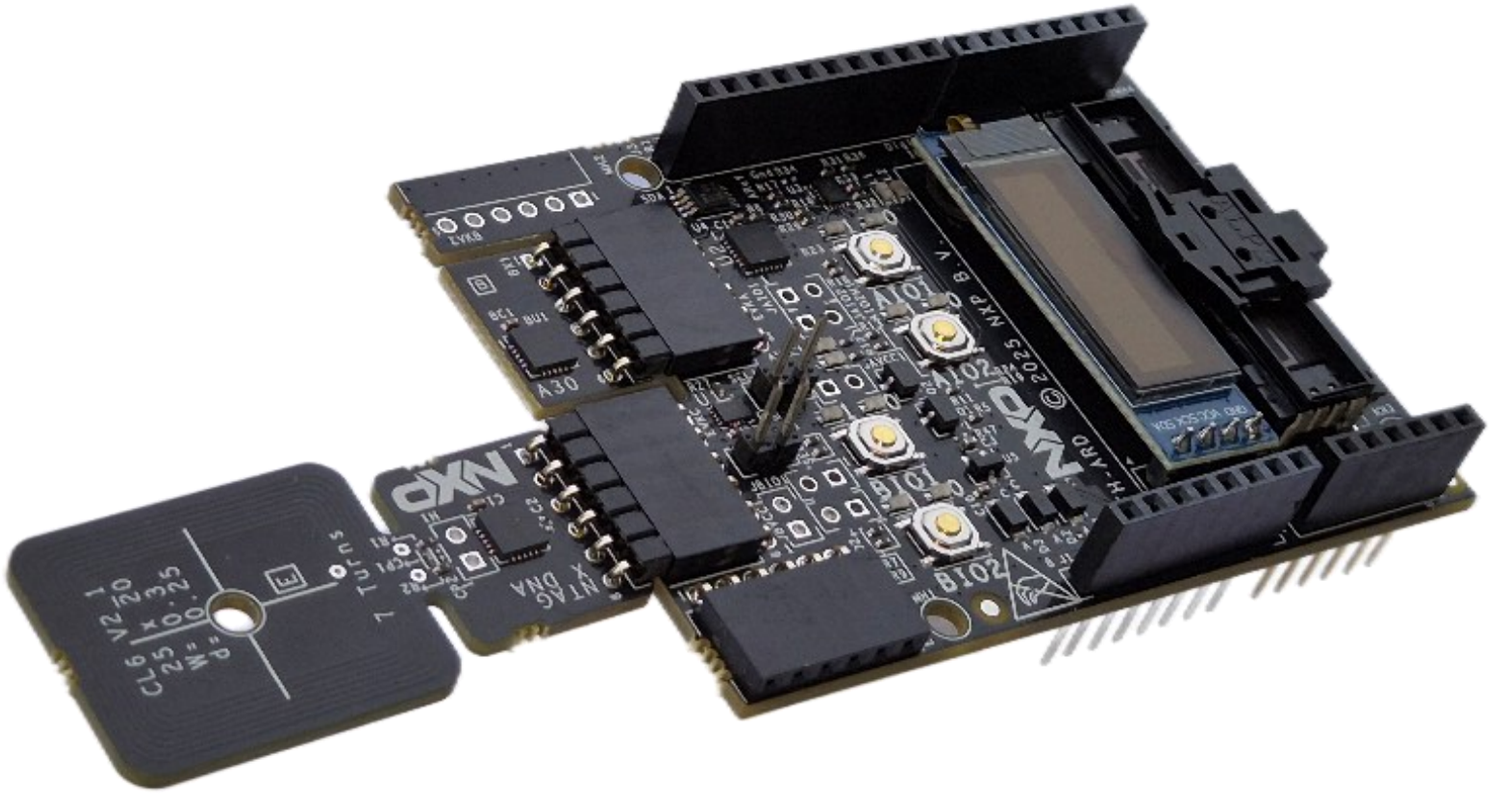


Quick Start Guide

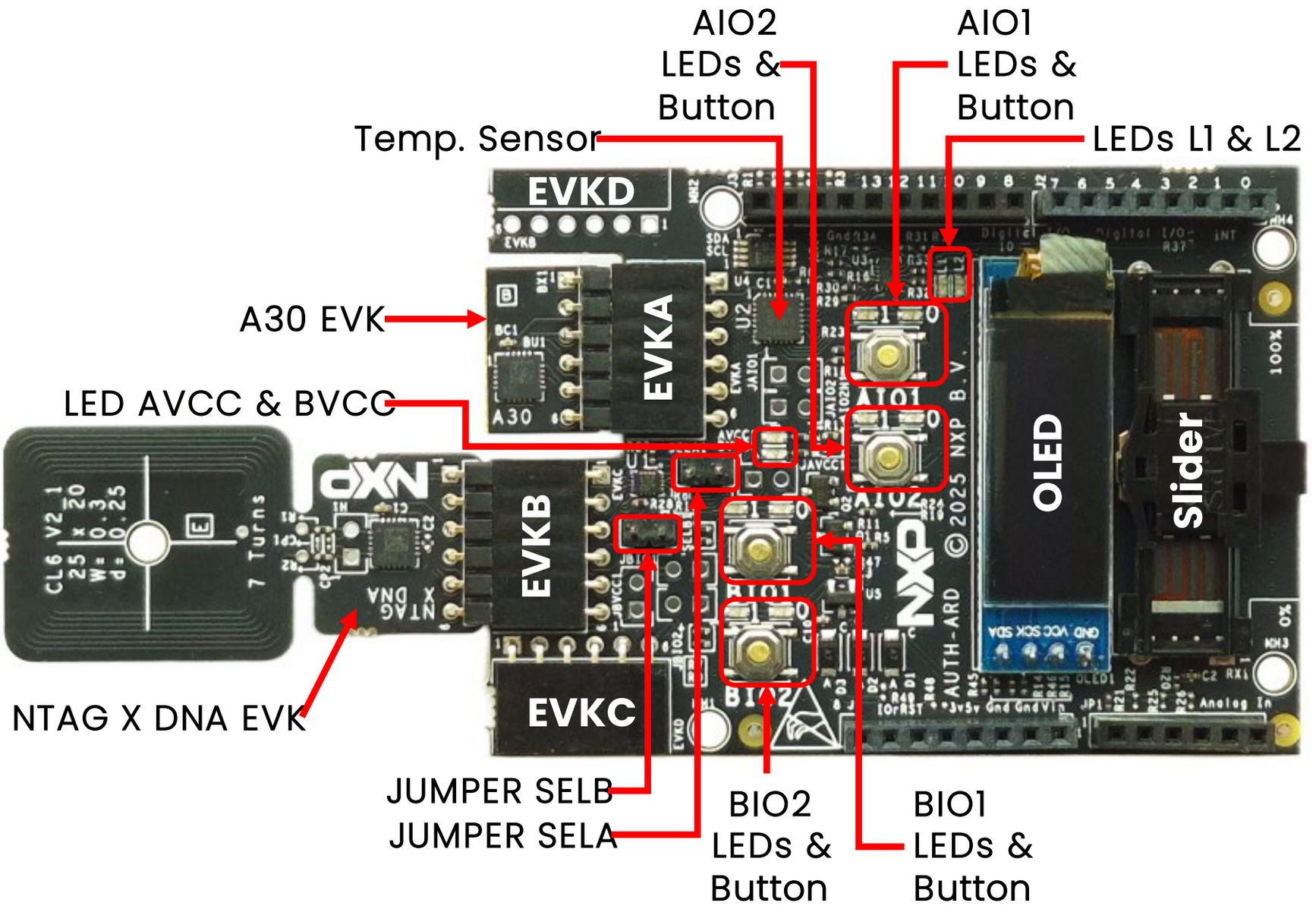
AUTH-ARD SHIELD

EdgeLock® A30 and NTAG® X DNA

Arduino® Compatible Evaluation Kit

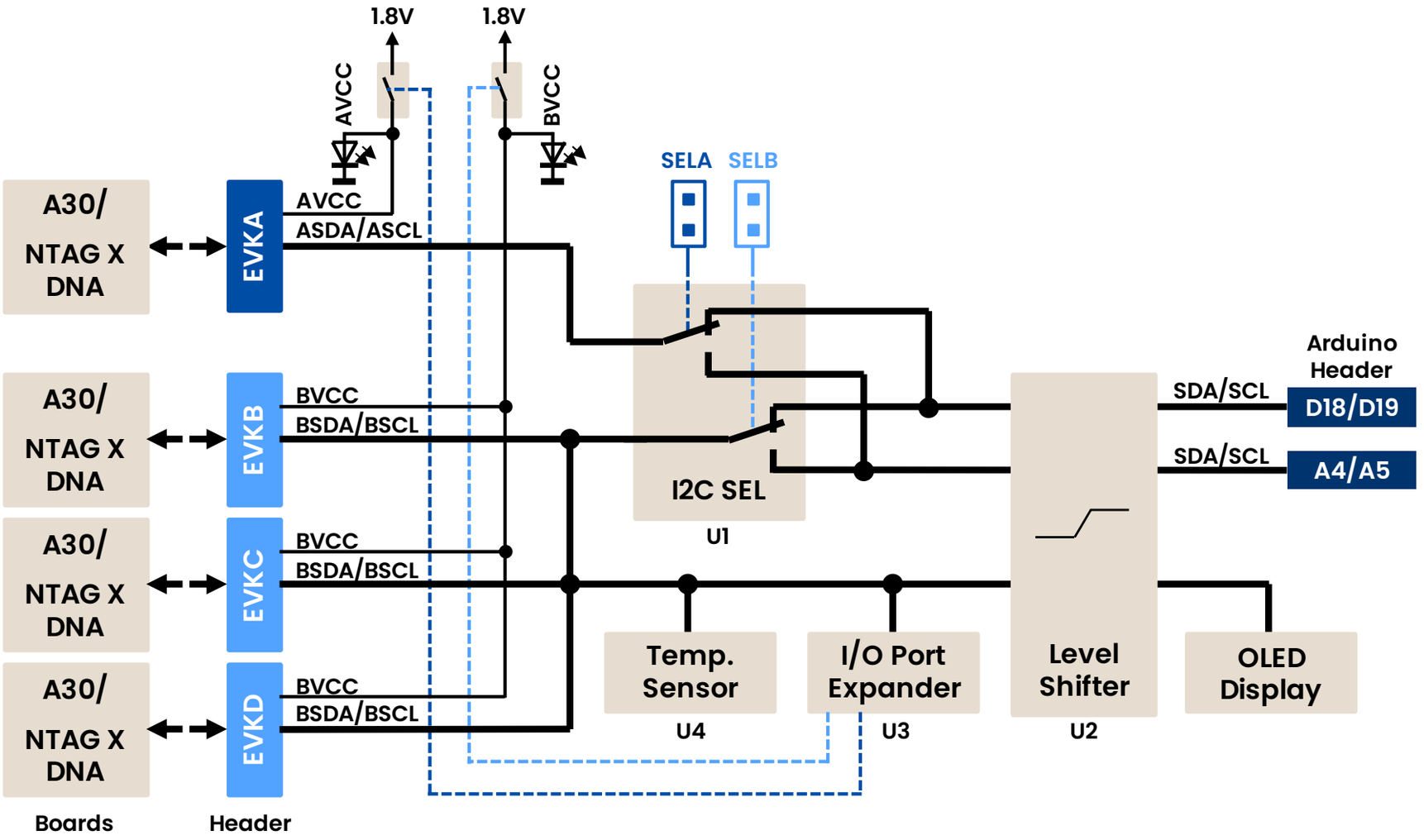
Get to know the AUTH-ARD shield

Please visit www.nxp.com/A30 and
www.nxp.com/NTAGXDNA for more information.



Get to know the AUTH-ARD shield

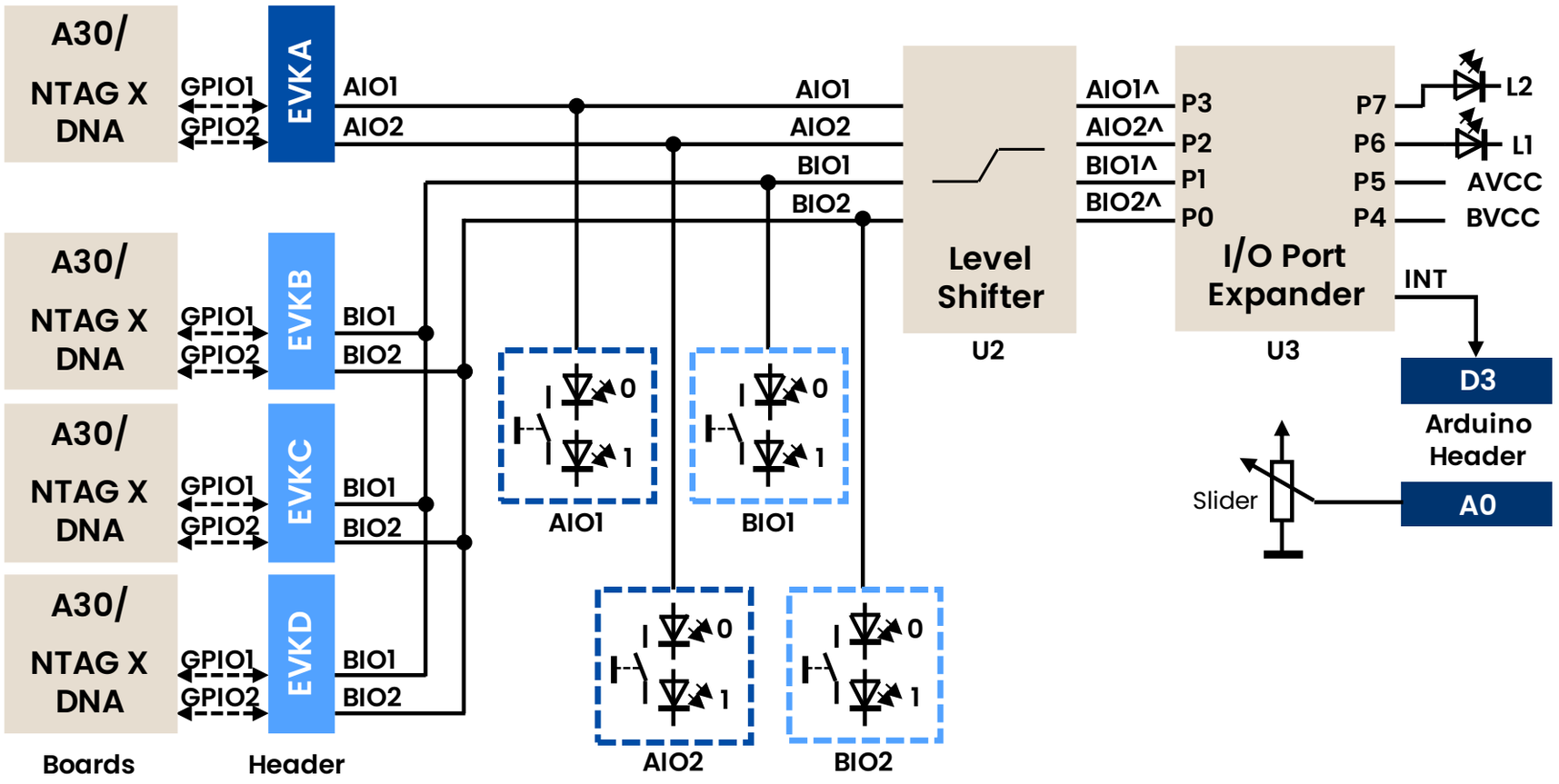
I2C bus configuration and power control



Jumper	Description	Configuration	Default
SELA	EVKA I2C-bus selection	Open: ASDA/ASCL are connected to D18/D19. Short: ASDA/ASCL are connected to A4/A5.	Open
SELB	EVKB/C/D and peripheral I2C-bus selection	Open: BSDA/BSCL are connected to D18/D19. Short: BSDA/BSCL are connected to A4/A5	Open

Get to know the AUTH-ARD shield

I/O level indictors and push buttons



LED	Description	Remark
LED1	User-defined LED	Controlled by the I2C port expander (U3), port P6.
LED2	User-defined LED	Controlled by the I2C port expander (U3), port P7.
AIO1	1: AIO1 signal is high 0: AIO1 signal is low	Controlled either by A30/NTAG X DNA or via the I2C port expander (U3) port P3.
AIO2	1: AIO1 signal is high 0: AIO1 signal is low	Controlled either by A30/NTAG X DNA or via the I2C port expander (U3) port P2.
BIO1	1: AIO1 signal is high 0: AIO1 signal is low	Controlled either by A30/NTAG X DNA or via the I2C port expander (U3) port P1.
BIO2	1: AIO1 signal is high 0: AIO1 signal is low	Controlled either by A30/NTAG X DNA or via the I2C port expander (U3) port P0.
AVCC	AVCC supply is available	AVCC power supply voltages is controlled via the I2C port expander (U3) port P5.
AVCC	BVCC supply is available	BVCC power supply voltages is controlled via the I2C port expander (U3) port P4.

Button	Description	Remark
AIO1	User input	The push buttons can provide input signals either to the corresponding A30/NTAG X DNA GPIOs or to the respective I2C port expander (U3) I/O port.
AIO2	User input	
BIO1	User input	
BIO2	User input	

EdgeLock A30 & NTAG X DNA

Visit www.nxp.com/A30 and www.nxp.com/NTAGXDNA for more information about the EdgeLock A30 and the NTAG X DNA products.

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
github.com/nxp/nxmw
www.nxp.com/A30
www.nxp.com/NTAGXDNA

Reference documents:

nxp.com: UM12448, AUTH-ARD shield

www.nxp.com/A30
www.nxp.com/NTAGXDNA

NXP, the NXP logo, EdgeLock and NTAG are trademarks of NXP B.V. All other product or service names are the property of their respective owners.
© 2026 NXP B.V.

Part Number: AUTH-ARD shield