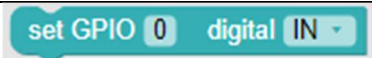
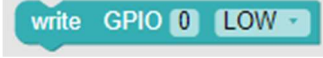


LOKII I/O Extender V2

SMART_IO Extender_V2 provides 12 x digital Input/ output pin (IO label: D0, D1, D2, ... D11) and additional 4 analog input pin (IO label: A0, A1, A2, A3) for external sensors or output in 3.3V.

To simplify the GPIO control in Blockly, we use following mapping:

SMART_IO Extender_V2 label	Blockly GPIO number
Digital PIN	
D0, D1, D2 ... D11	0,1,2, ... 11
Analog PIN A0, A1, A2, A3	12,13,14,15

1	 Set a GPIO number pin with specified GPIO number as either INPUT or OUTPUT usage Remark: For Analog PIN, only INPUT status is allowed
2	 Read all INPUT pins status from SMART_IO Extender_V2 to blockly cache. This saves the reading time for multiple read operations in “read GPIO” block
3	 Read an INPUT pin status with specified GPIO number from blockly cache instantly.
4	 Write an OUTPUT pin with specified GPIO number for either low (0V) or high (3.3V) status.
5	 Conditional block to check for an INPUT pin status. If the condition meets, execute the inner block action.

If user want to connect SMART_ARDUINO with SMART_IO_Extender_V2, please follow this connection

SMARMT_ARDUINO	SMART_IO_Extender_V2
D11	CS0
D10	MISO
D9	MOSI
D6	SCK
D5	CS1
5V	VIN
GND	GND

PIN assignment

