

Optional Products | OpenBlocks IoT BX0/BX1/BX3/BX5



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Applicable products: OpenBlocks IoT BX0 / BX1 / BX3 / BX5

USB power splitter cable / with USB host



This is a Y-cable that adds a USB host (female) connector for connecting external USB devices to the standard USB power supply console cable.

Model number	For BX0/BX1/BX3: BX1-USBFM-C For BX5: BX5-USBFM1-C
Cable length	Male (console and power supply*): 480mm Female (USB host function): 130mm *The BX5 version only provides power supply functionality; console functionality is not available.

USB power splitter cable with RS-232C connector (not compatible with BX5)



This is a Y-cable that adds an RS-232C (RJ-45) connector for serial communication to the standard USB power supply console cable.

Model number	BX1-USB232-C
Cable length	USB male (console and power supply): approx. 480mm RS-232C (RJ-45): approx. 420mm

USB power splitter cable with RS-485 port



This is a Y-cable that adds a two-wire RS-485 cable for serial communication to the standard USB power supply console cable.

Model number	For BX0/BX1/BX3: BX1-RS485-C For BX5: BX5-USB485-C
Cable length	USB male (console and power supply): approx. 480mm RS-485: approx. 500mm *Console function cannot be used with the BX5.

Optional Cable

We manufacture these to order. There is a minimum order quantity. Please contact us regarding cable length.

Product name	USB power supply splitter cable with I2C
	USB power supply splitter cable with GPIO pins.
	USB power supply splitter cable with DC input

USB power supply for OpenBlocks IoT series



This is an adapter that converts AC power to USB power for power supply.

Model number	AVW0515A
Shape and dimensions	AC adapter dimensions: 38(W) x 78(D) x 26(H) mm (excluding plug and protrusions) Input: Plug directly attached to AC adapter body Output: USB Type-A receptacle
Input/Output	Input: 90-264V, 50/60Hz Output: DC 5V
Operating conditions	Temperature: 0°C~+40°C
standard	PSE

I/O Development Board Set (Not compatible with BX0)

Utilizing a wide range of wireless and wired interfaces, it enables data collection from various sensors and measuring instruments, remote control of inspection equipment, and various IoT proof-

of-concept developments such as healthcare, monitoring, security systems, remote monitoring, and power monitoring. Furthermore, it allows for the pre-development and verification of various systems, including integration with cloud systems, in addition to sensor devices.

*This is an optional feature at the time of product shipment. It will be installed on the purchased unit or shipped simultaneously.



Model number (set model number for the I/O development board and OpenBlocks IoT BX main unit)	BX5: OBSBX5/D BX3: OBSBX3/D BX1: OBSBX1/D
External Interface	UART to USB microUSB Type-B USB2.0 x 1 Type-A RS-232C x 1 (*1) D-Sub9 (Tx, Rx, CTS, RTS) * DSR and DTR loopback within the board RS-485 x 1 (*1) 2-pole terminal block I2C x 1 (*2, *3) SPI x 1 (*2, *3) 1-device PWM x 4 (*2, *3) GPIO x 1 (*2) A/D input (SPI_0) Differential 2ch or single-ended 4ch
Onboard devices	Temperature and humidity sensor (I2C): Sensision SHT21 or Alps HSHCAL001B; A/D converter (SPI): TI ADS1018
size	70 (W) x 120 (D) Weight 50g
weight	50g
Operating conditions	Temperature 0°C~+40°C / Humidity 20~80%Rh
power supply standard	DC5V (microUSB Type-B) DC5V (EIAJ Type-2) DC5~48V (AUX Power)

*1 Exclusive use (switchable via toggle switch on the board)

*2 Pin header socket

*3 Can be used as GPIO

Outdoor IoT/Monitoring System Box



This system box enables the construction of IoT systems in various outdoor environments, such as cities, roads, public spaces, and outdoor facilities. *Manufactured by Nitto Kogyo Co., Ltd.

	Large type	Small type
Shape and dimensions	400(W) x 200(D) x 400(H) mm	200(W) x 200(D) x 400(H) mm
Built-in power supply (with SPD)	○	—
fan	○	—
heater	○	—

substrate coating

By applying a moisture-proof, rust-proof, and insulating agent to the substrate and forming a dry film, problems caused by moisture, toxic gases, and salt damage are prevented.

*There is a minimum order quantity; please contact our sales department for details.

Inquiries before purchase

We accept various inquiries, including consultations regarding the specifications and usage of products you are considering purchasing, and requests for quotations.

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