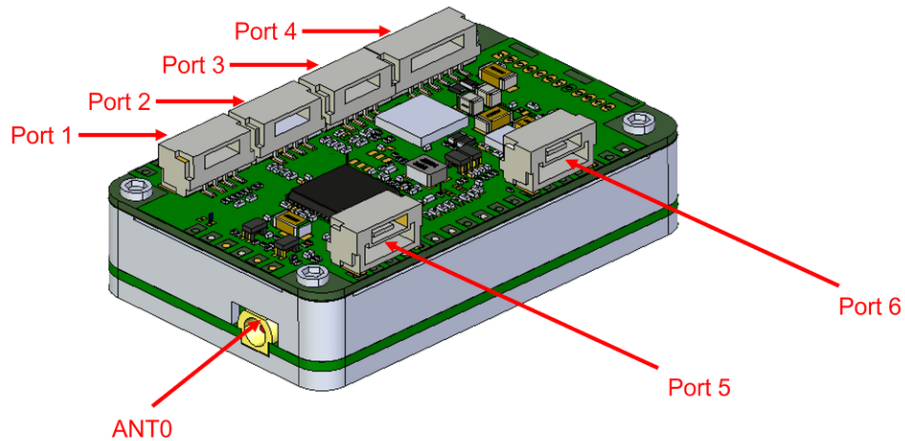


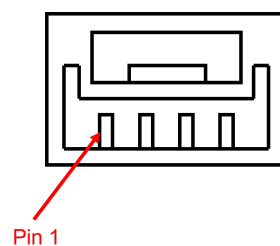
nanoOEM Mesh Rider Radio – Connector Descriptions (2023 Update)



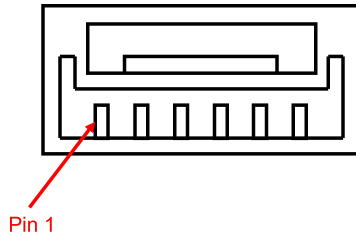
Connectors

Port No.	Description	Manufacturer	MPN
Ports 1/2/3/5/6	Data Connectors	JST	SM4B-GHS-TB
Port 4	Power Connector	JST	SM6B-GHS-TB
ANT 0/1	MMCX Female Antenna Connectors	Molex	73414-0100

Connector Pin Numbering



4-pin JST Connector



6-pin JST Connector

Wire Descriptions

Port 1

Pin Number	Direction	Voltage	Pin Description
PIN 1			Not Connected
PIN 2	I/O	Diff Signal	USB-Dev-D- (Ethernet only)
PIN 3	I/O	Diff Signal	USB-Dev-D+ (Ethernet only)
PIN 4		GND	GND

Port 2

Pin Number	Direction	Voltage	Pin Description
PIN 1	I	Diff Signal	ETH1_RX_N
PIN 2	I	Diff Signal	ETH1_RX_P
PIN 3	O	Diff Signal	ETH1_TX_N
PIN 4	O	Diff Signal	ETH1_TX_P

Port 3

Pin Number	Direction	Voltage	Pin Description
PIN 1		GND	GND

Pin Number	Direction	Voltage	Pin Description
PIN 2	I/O	+2.8-V	RESET – default high, pull low to reset
PIN 3	I	+3.3-V	UART_RX
PIN 4	O	+3.3-V	UART_TX

Port 4

Pin Number	Direction	Voltage	Pin Description
PIN 1	I	+5-V	5-V Input Supply
PIN 2	I	+5-V	5-V Input Supply
PIN 3	I	+5-V	5-V Input Supply
PIN 4		GND	GND
PIN 5		GND	GND
PIN 6		GND	GND

Port 5

Pin Number	Direction	Voltage	Pin Description
PIN 1	I	+5-V	5-V Input Supply
PIN 2	I/O	Diff Signal	USB-Host-D+
PIN 3	I/O	Diff Signal	USB-Host-D-
PIN 4		GND	GND

Port 6

Pin Number	Direction	Voltage	Pin Description
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Pin Number	Direction	Voltage	Pin Description
PIN 1	I/O	+2.8-V	GPIO2
PIN 2	I/O	+2.8-V	GPIO1
PIN 3	I/O	+2.8-V	GPIO0
PIN 4		GND	GND