

Embedded Mesh Rider Radio (-J) Connector Descriptions

Overview

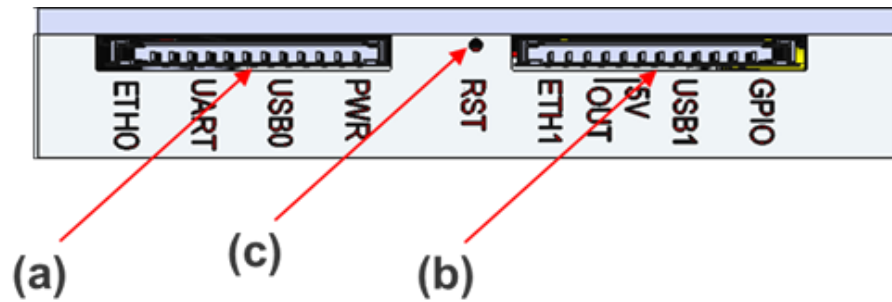


Fig. 1a Embedded Mesh Rider Radio (-J) Electrical Interfaces

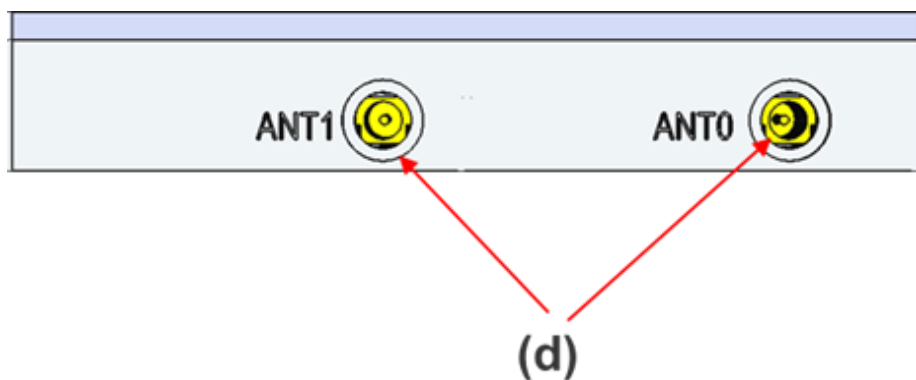


Fig. 1b Embedded Mesh Rider Radio (-J) Electrical Interfaces

1. Main Connector (Molex 5040501291)
2. AUX Connector (Molex 5037630491)
3. RST Button (pin hole)
4. MMCX Antenna Connector (S-Conn MM212N0G29)

Main Connector

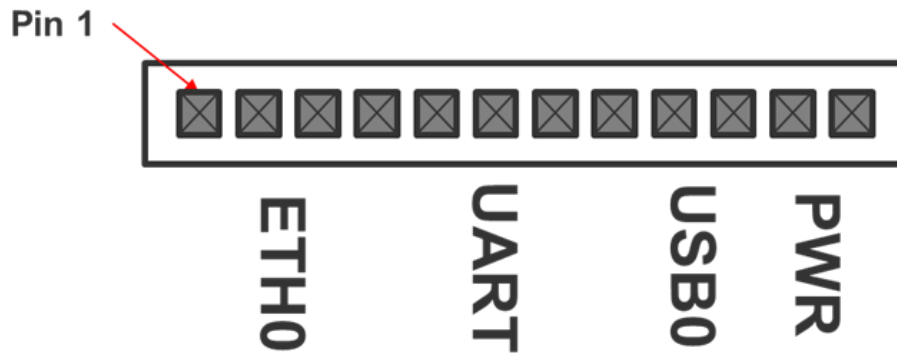


Fig. 2 Main Connector Pin Numbering

Auxiliary Connector (a)

Pin Number	Direction	Voltage	Pin Description
1	O	Diff Signal	ETH0_TX-
2	O	Diff Signal	ETH0_TX+
3	I	Diff Signal	ETH0_RX-
4	I	Diff Signal	ETH0_RX+
5	-	GND	GND
6	I	+3.3-V	UART_RX
7	O	+3.3-V	UART_TX
8	-	GND	GND
9	I/O	Diff Signal	USB0_DN
10	I/O	Diff Signal	USB0_DP
11	-	GND	GND
12	-	+6 V – +42 V	PWR

Auxiliary Connector

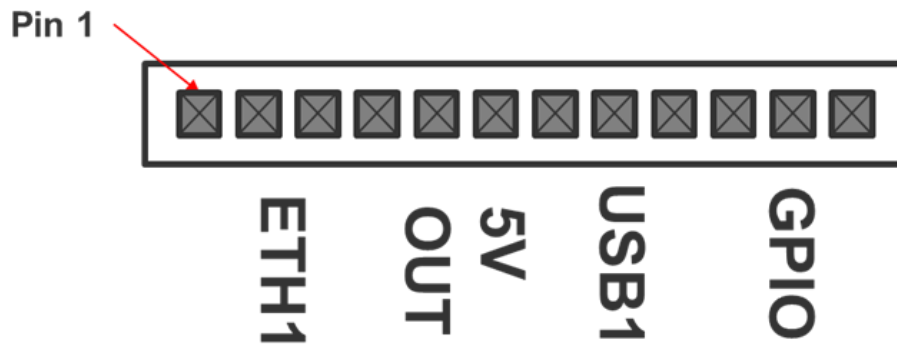


Fig. 3 Auxiliary Pin Numbering

Auxiliary Connector (b)

Pin Number	Direction	Voltage	Pin Description
1	O	Diff Signal	ETH1_TX-
2	O	Diff Signal	ETH1_TX+
3	I	Diff Signal	ETH1_RX-
4	I	Diff Signal	ETH1_RX+
5	-	GND	GND
6	O	+5-V	5 V Output
7	I/O	Diff Signal	USB1_DN
8	I/O	Diff Signal	USB1_DP
9	-	GND	GND
10	I/O	+3.3-V	GPIO3
11	I/O	+3.3-V	GPIO2
12	I/O	+3.3-V	GPIO1

