

# MiiNePort E2 Schematic Design Guide

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# MiiNePort E2 Schematic Design Guide

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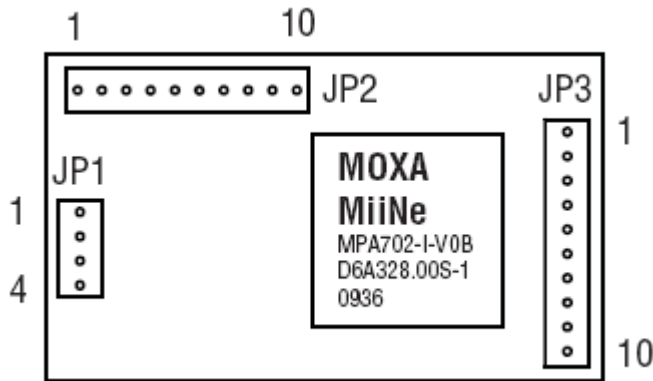
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# Pin Description

## MiiNePort E2 & E2-H (Bottom View)



JP1				JP2			
Pin	Signal Name	I/O	Function	Pin	Signal Name	I/O	Function
1	Ethernet Tx+	O	Ethernet Transmit Data+	1	100M LED	O	Ethernet 100M LED
2	Ethernet Tx-	O	Ethernet Transmit Data-	2	10M LED	O	Ethernet 10M LED
3	Ethernet Rx+	I	Ethernet Receive Data+	3	LRXD	I	Receive Serial Data
4	Ethernet Rx-	I	Ethernet Receive Data-	4	LTXD	O	Transmit Serial Data
				5	LDCD	I	Receive Line Signal Detector
				6	RS485_EN	O	RS-485 Enable
				7	LRTS	O	Request To Send
				8	LDTR	O	Data Terminal Ready
				9	LDSR	O	Data Set Ready
				10	LCTS	I	Clear To Send

JP3			
Pin	Signal Name	I/O	Function
1	DIO0	I/O	Programmable I/O
2	DIO2	I/O	Programmable I/O
3	DIO3	I/O	Programmable I/O
4	DIO1	I/O	Programmable I/O
5	Reserve	N/A	N/A
6	Reserve	N/A	N/A
7	SW_Reset	O	Reset to Factory Default
8	GND	Power	Circuit Ground
9	Ready LED	O	System To Ready LED
10	VCC	Power	Power Supply

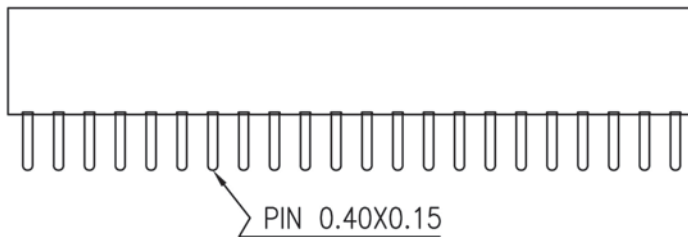
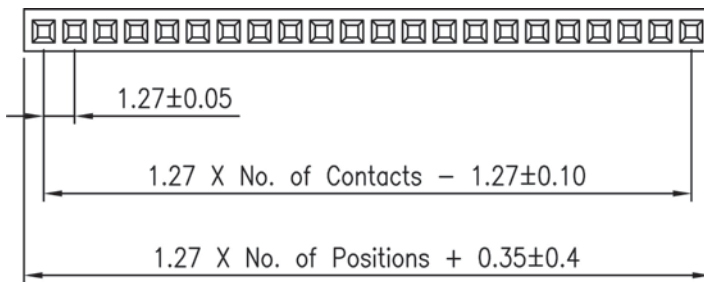
# Recommended Mating Connector

Female pin header for JP1, JP2 & JP3 connected

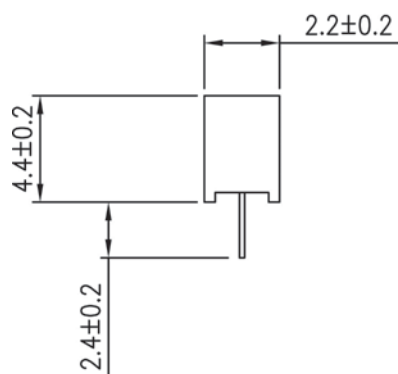
Photo



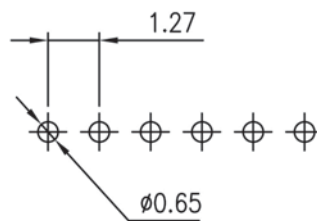
Dimension



Recommended P.C. Board

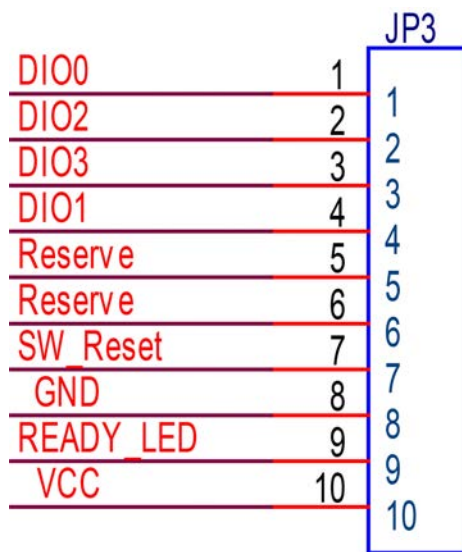


Recommended P.C.Board



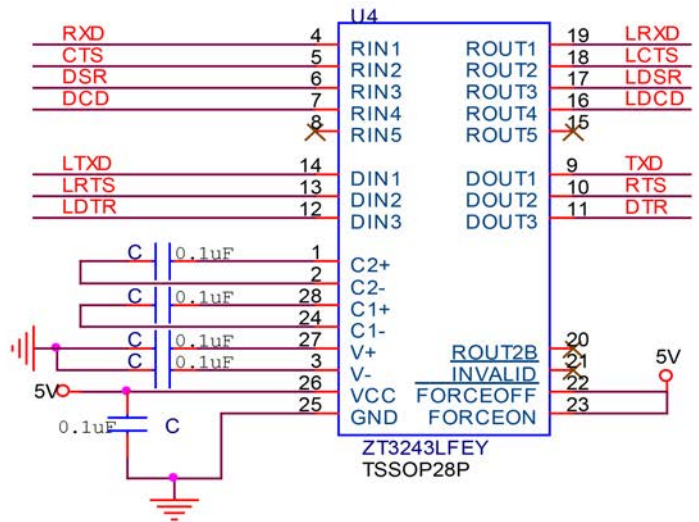
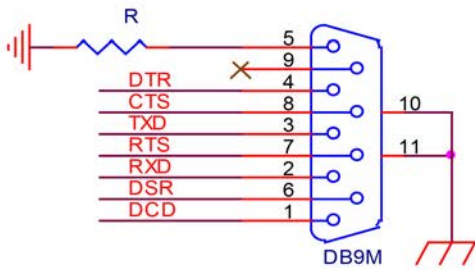
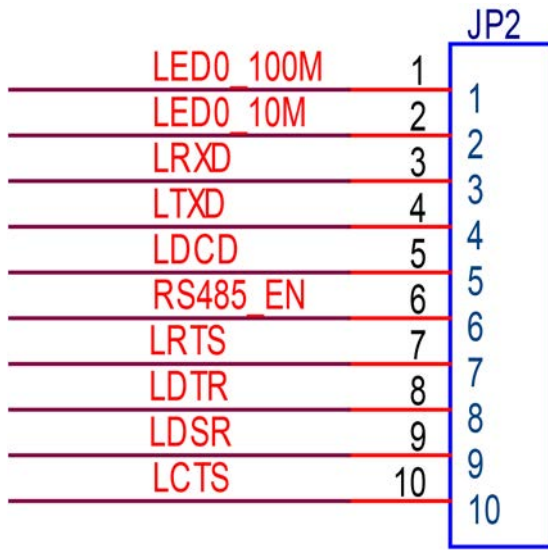
Hole Layout

# System Power Circuit Design

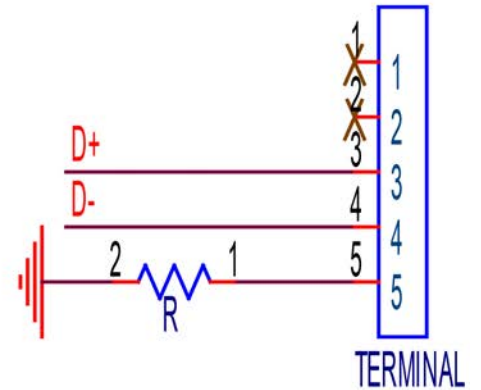
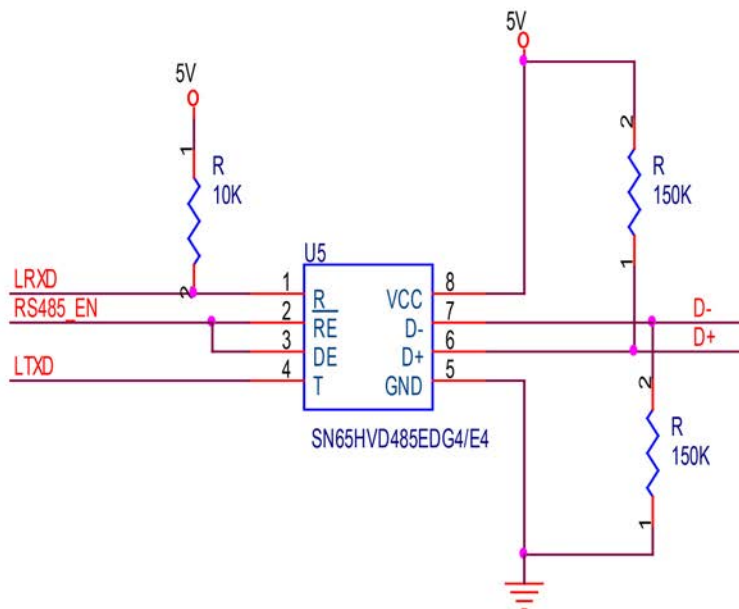
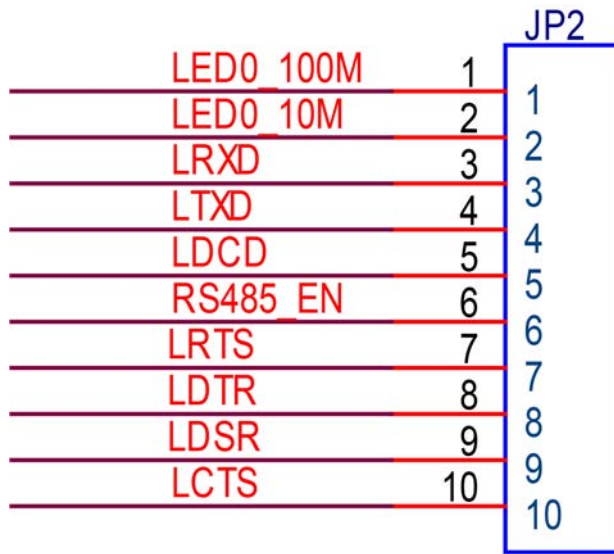


Symbol	Parameter	Min	Nominal	Max	Units
VCC	Supply Voltage	3.14	3.3~5	5.25	V

# RS-232 Circuit Design

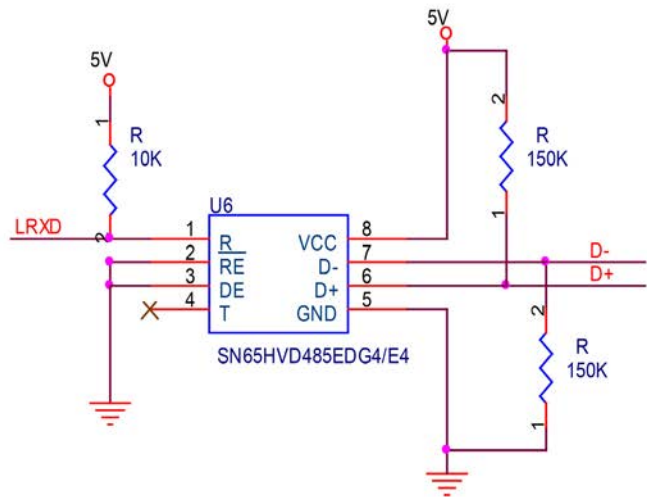
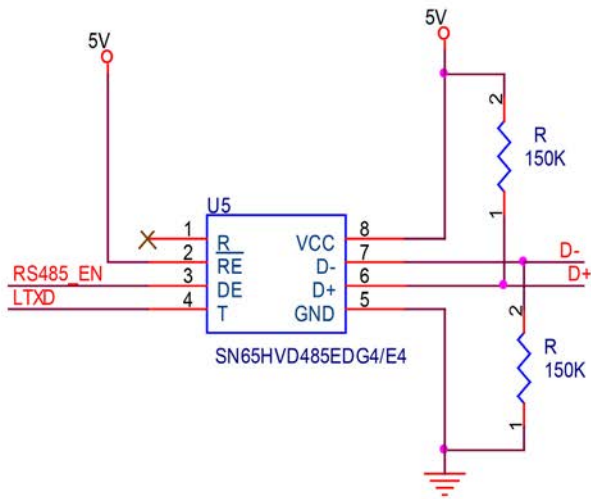
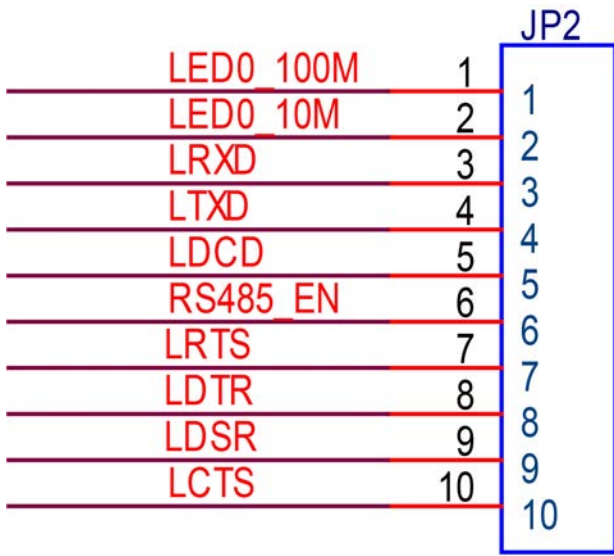


## 2W-RS-485 Circuit Design

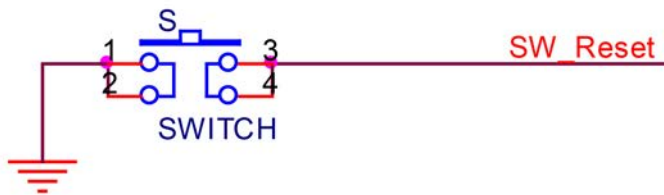
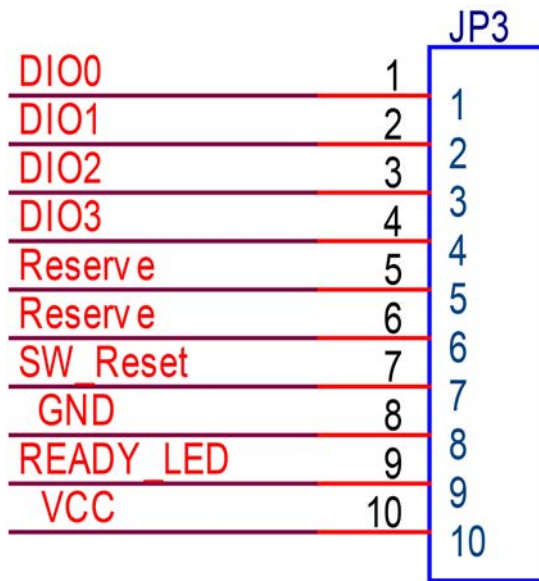




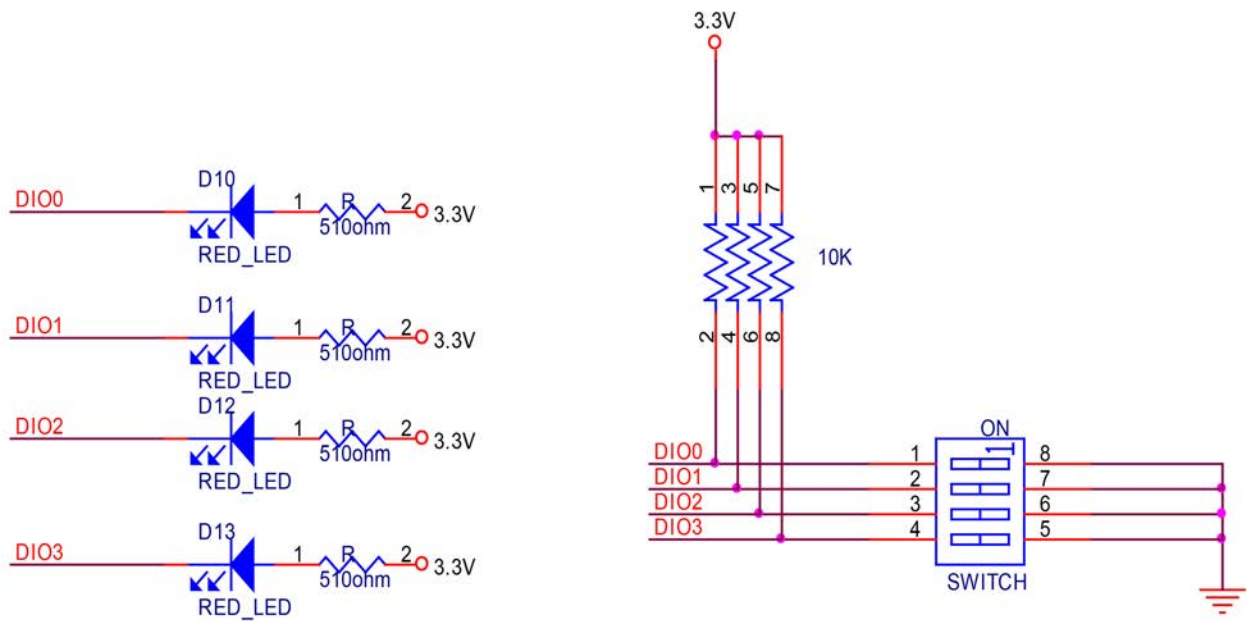
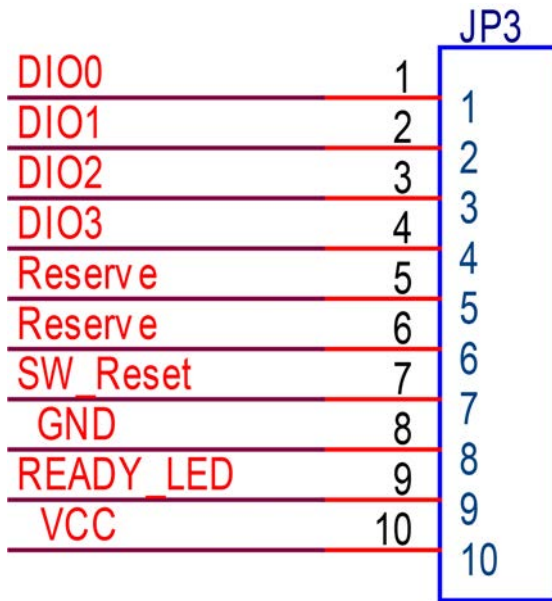
# 4W-RS-485 Circuit Design



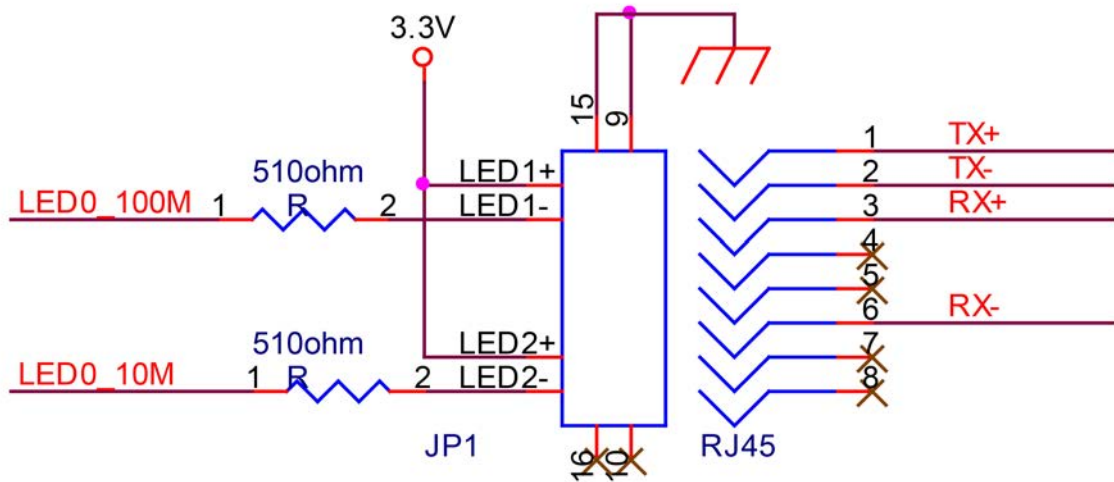
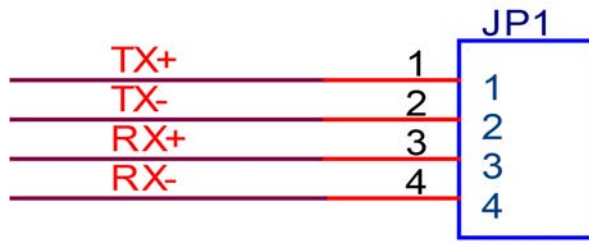
# SW Reset and READY LED Circuit Design



# DIO Circuit Design



# Ethernet Circuit Design



## DC Characteristics for Serial PIO INTERFACE

Symbol	Parameter	Min	Nominal	Max	Units
VIL	Input Low Voltage	-0.3	N/A	0.8	V
VIH	Input High Voltage	2	N/A	5.5	V
VOL	Output Low Voltage	N/A	N/A	0.4	V
VOH	Output High Voltage	2.4	N/A	N/A	V
IOL	DIO/Other interface	11/5.6	N/A	N/A	mA
IOH	DIO/Other interface	12/7.2	N/A	N/A	mA
VIH	Input High Voltage	2	N/A	5.5	V