

# RJ45 Ethernet Connector

## SRJ101011010

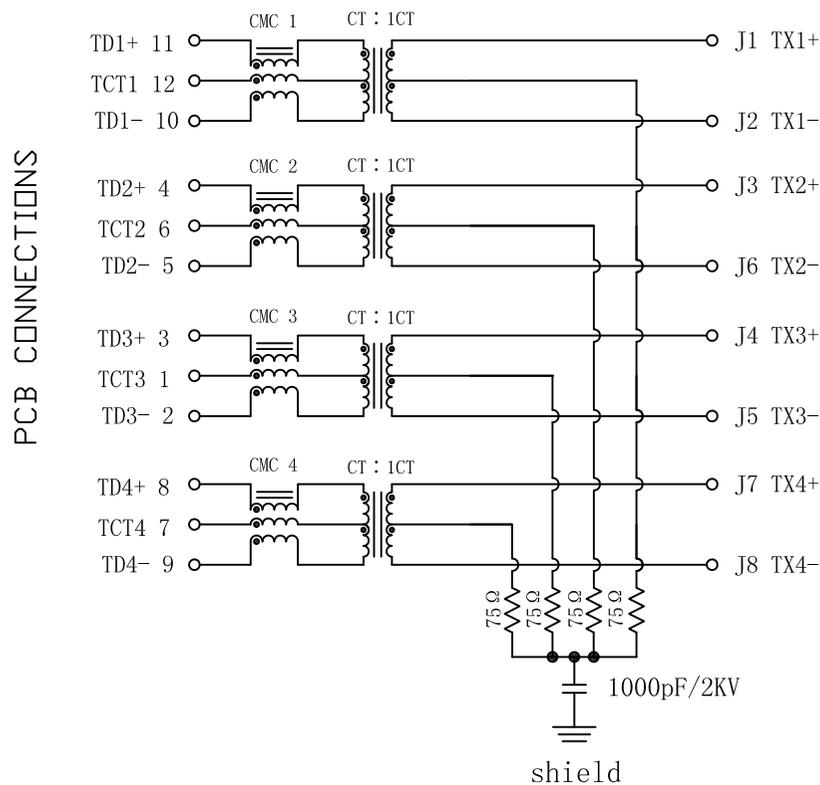


### Specifications Overview

<b>Points</b>	RJ45 + USB combo connector (right angle)
<b>POE</b>	NONE-PoE design
<b>Orientation</b>	90° Angle (Right)
<b>Speed</b>	100/1000 Base-T
<b>LED configuration</b>	Orange & Green/Yellow LED indicators
<b>Shielding</b>	Shielded with EMI tabs
<b>Operating Temperature</b>	-40°C to +85°C
<b>Mounting</b>	Through-hole
<b>Latch</b>	UP
<b>Cores to Port</b>	8

# Schematic:

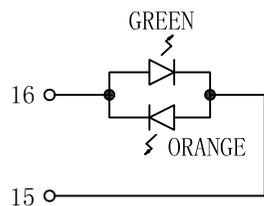
REV.	ECN NO.	DESCRIPTION	DATE	APPD
A	REL		2013/06/29	



RJ45 CONNECTOR

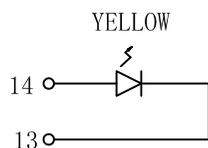
## ELECTRICAL SPECIFICATIONS @25°C

1. Turn Ratio: 1CT : 1CT
2. Inductance OCL: 350uH MIN @100KHz/0.1V, 8mA DC Bias
3. Insertion Loss: -1.1dB MAX @ 0.5~100MHz
4. Return Loss: -18dB MIN @ 0.5~40MHz  
-12-20LOG(f/80)dB MIN @ 40.1~100MHz
5. Cross talk: -35dB MIN @ 0.5~40MHz  
-33-20LOG(f/50)dB MIN @ 40.1~100MHz
6. Common Mode Rejection Ratio(CMRR): -30dB MIN @ 0.5~100MHz
7. Hipot Test: 1500Vrms
8. Operating Temperature: -40°C TO +85°C



LEFT LED

LED POLARITY		COLOR
PIN 16	PIN 15	
+	-	GREEN
-	+	ORANGE



RIGHT LED

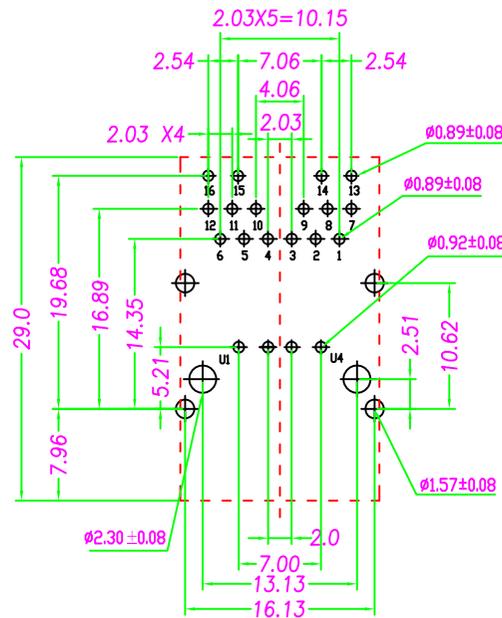
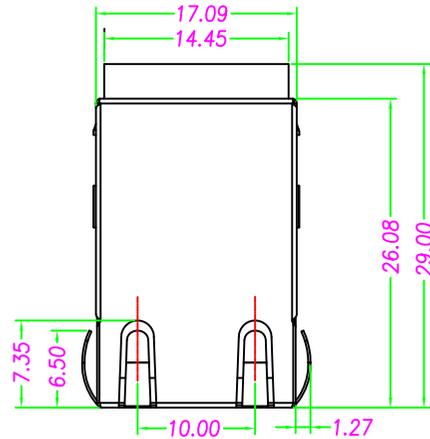
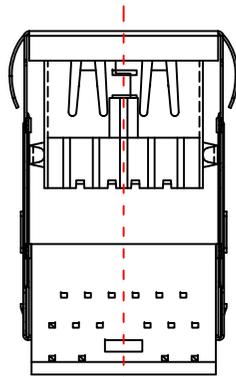
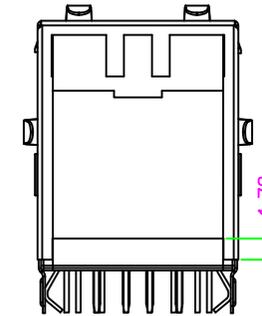
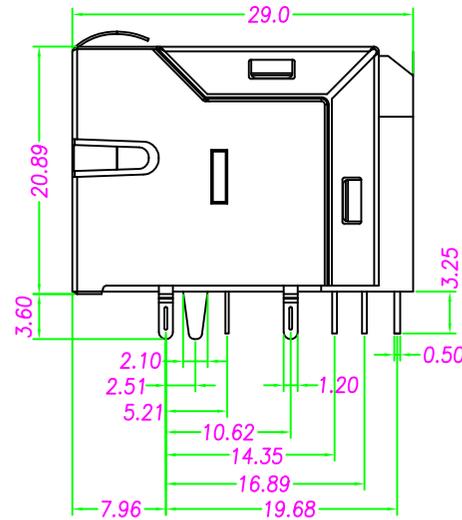
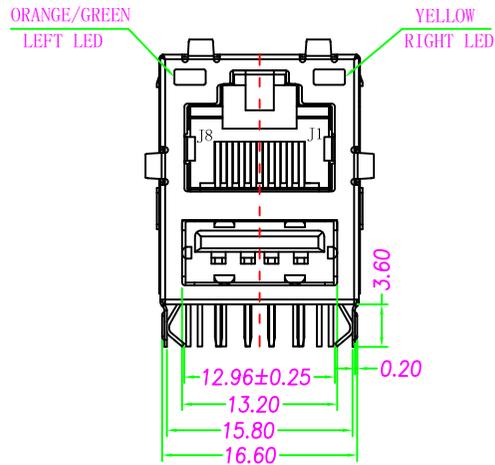
LED POLARITY		COLOR
PIN 14	PIN 13	
+	-	YELLOW

Emitting Color	$\lambda$ p(nm)	VF@IF=20mA	IR @VR=5V
Orange/Green	610/570	1.8~2.6V	10 $\mu$ A max
Yellow	585	1.8~2.6V	10 $\mu$ A max

X:X	$\pm 0.30$	APPD:	<b>Summit Electronics BV</b>	
X:XX	$\pm 0.25$	CHKD:		
X:XXX	$\pm 0.10$	DR: TOM	TITLE: RJ45/Single USB Jack With 1000 Magnetics	
ANGLES	$\pm 1^\circ$	UNIT: mm	PART NO.: <b>SRJ101011010</b>	
	SCALE: 2/1	SHEET: 1/2	REV: A	DWG NO.: LP13062922

# Mechanical :

REV.	ECN NO.	DESCRIPTION	DATE	APPD
A	REL		2013/06/29	



SUGGESTED PCB LAYOUT (TOP VIEW)

## NOTES:

1. Designed to support application, such as SOHO (ADSL modems), LAN-on-Motherboard (LOM), hub and Switches.
2. Meets IEEE 802.3 specification
3. Connector Materials:  
 Housing: Thermoplastic UL94V-0  
 Contact/Shield: Copper alloy  
 Shield plating: Nickel  
 RJ-45 Contact plating: Gold 6 micro-inches min.  
 In contact area  
 USB Contact plating: Gold Flash
4. Wave solder tip temperature and time: 265°C MAX,  
 5 Sec MAX.

X:X	±0.30	APPD:	Summit Electronics BV	
X:XX	±0.25	CHKD:		
X:XXX	±0.10	DR: TOM	TITLE: RJ45/Single USB Jack With 1000 Magnetics	
ANGLES	±1°	UNIT: mm	PART NO.: SRJ101011010	
	SCALE: 2/1	SHEET: 2/2	REV: A	DWG NO.: LP13062922