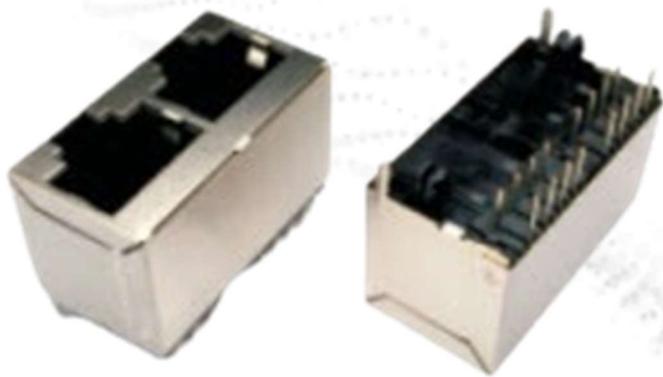


RJ45 Ethernet Connector

SRJ102010020



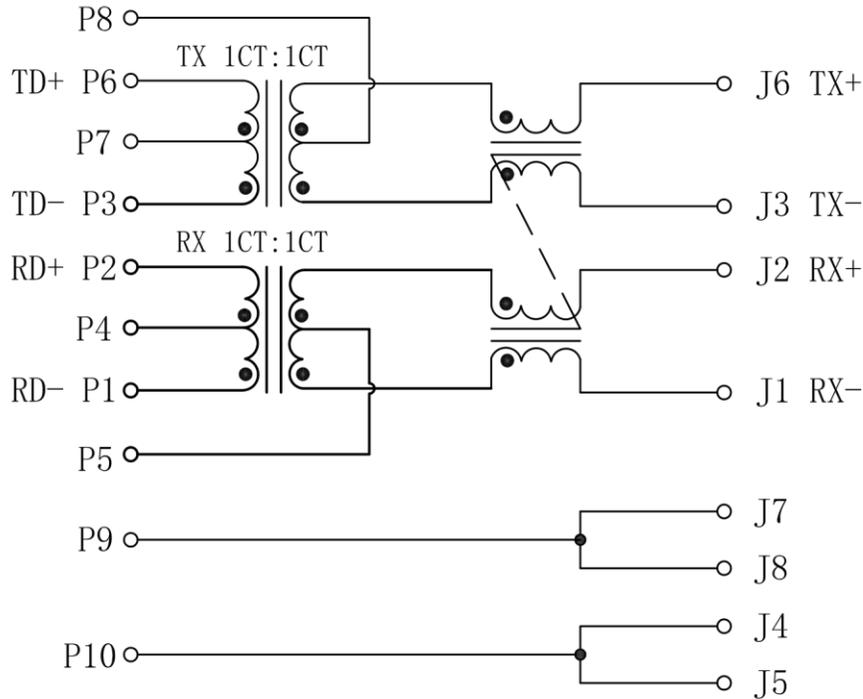
Specifications Overview

Points	1×2 RJ45 MagJack, side entry (right angle)
POE	PoE
Orientation	90° Angle (Right)
Speed	100 Base-T
LED configuration	Green/Yellow LED indicators
Shielding	Shielded with EMI tabs
Operating Temperature	-40°C to +85°C
Mounting	Through-hole
Latch	Down
Cores to Port	4

Schematic:

REV.	ECN NO.	DESCRIPTION	DATE	APPD
A	REL		29/08/2009	

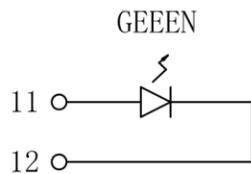
PC BOARD CONNECTIONS



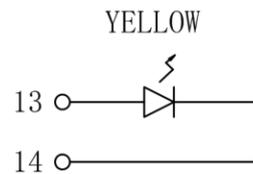
RJ45 CONNECTOR

ELECTRICAL SPECIFICATIONS@25°C

- Turn Ratio ($\pm 3\%$):
TX=1CT:1CT RX=1CT:1CT
- Inductance OCL:
350uH MIN@100KHz/0.1V, 8mA DC Bias
- Insertion Loss:
-1.2dB MAX @ 1-100MHz
- Return Loss:
-16dB MIN @ 1-30MHz
-14dB MIN @ 40MHz
-13dB MIN @ 50MHz
-12dB MIN @ 60-80MHz
- Cross talk:
-43dB MIN @ 30MHz
-37dB MIN @ 60MHz
-33dB MIN @ 100MHz
- Differential to Common Mode Rejection:
-50dB MIN @ 30MHz
-43dB MIN @ 60MHz
-35dB MIN @ 100MHz
- Balanced DC Line Current:
350mA MAX @48VDC
- Hipot Test: 1200Vrms MIN
- Operating Temperature Range: -40°C TO +85°C.



LEFT LED



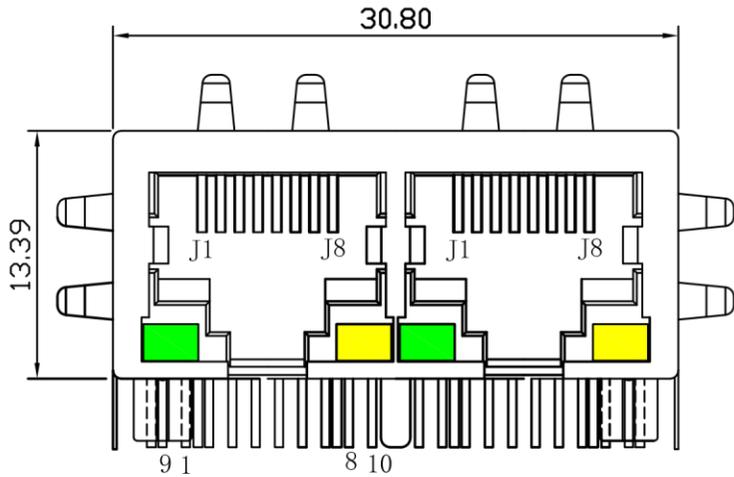
RIGHT LED

Emitting Color	λ_p (nm)	V _F @I _F =20mA	I _R @V _R =5V
GREEN	565	1.8~2.4V	10 μ A max
YELLOW	585	1.8~2.4V	10 μ A max

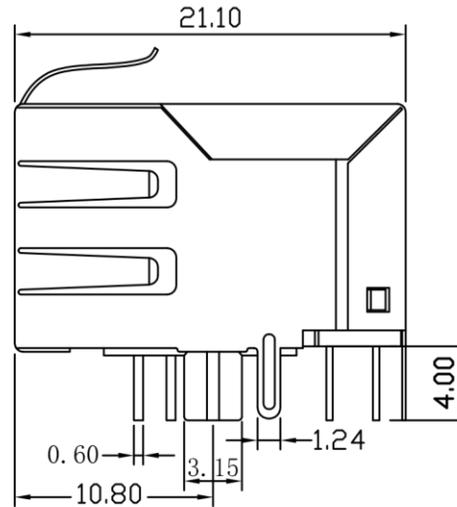
X:X	± 0.30	APPD:	Summit Electronics BV	
X:XX	± 0.25	CHKD:		
X:XXX	± 0.05	DR: TOM	TITLE: RJ45 Connector with 10/100 Base-T Integrated Magnetics For PoE Application	
ANGLES	$\pm 1^\circ$	UNIT: mm	PART NO. :	SRJ102010020
	SCALE: 2/1	SHEET: 1/2	REV: A	DWG NO. :

Mechanical:

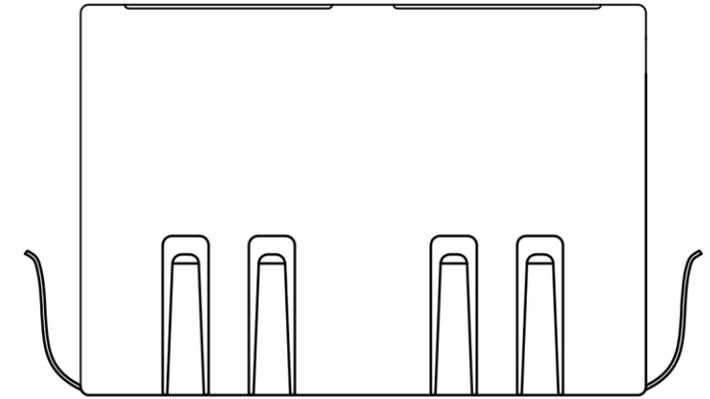
REV.	ECN NO.	DESCRIPTION	DATE	APPD
A	REL		29/08/2009	



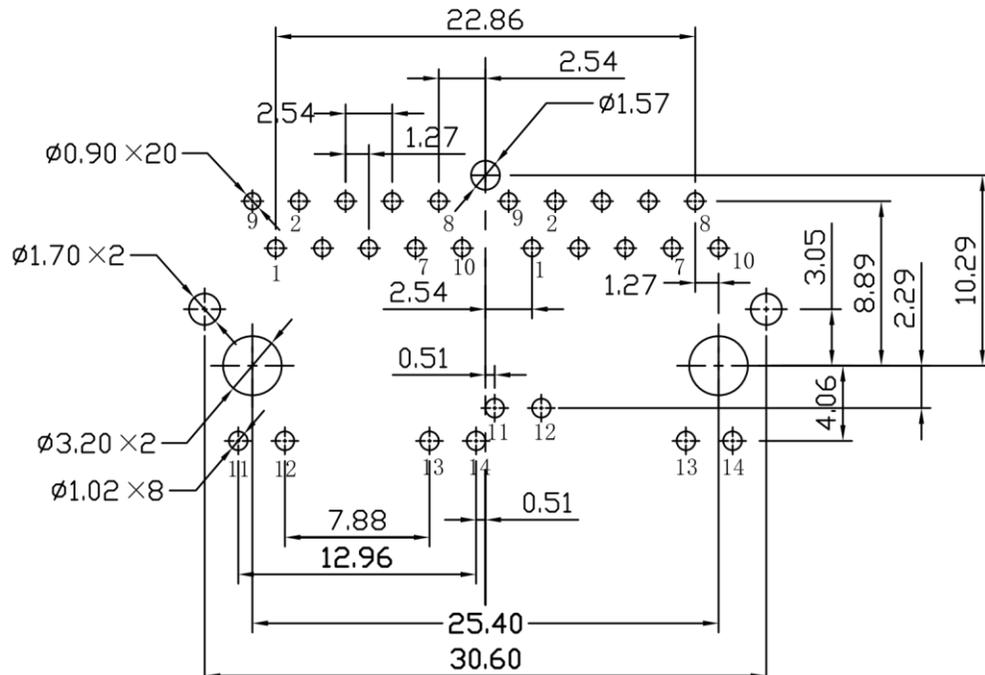
Front Side View



Left Side View



Top Side View



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 802.3af specification
3. Connector Materials:
 Housing: Thermoplastic UL94V-0
 Contact/Shield: Copper alloy
 Shield plating: Nickel
 Contact plating: Gold 6 micro-inches min. In contact area.
4. Support Power over Ethernet (PoE).



X:X ±0.30	APPD:	Summit Electronics BV		
X:XX ±0.25	CHKD:			
X:XXX ±0.05	DR: TOM	TITLE: RJ45 Connector with 10/100 Base-T Integrated Magnetics For PoE Application		
ANGLES ±1°	UNIT: mm	PART NO. :	SRJ102010020	
	SCALE: 2/1	SHEET: 2/2	REV: A	DWG NO. :