

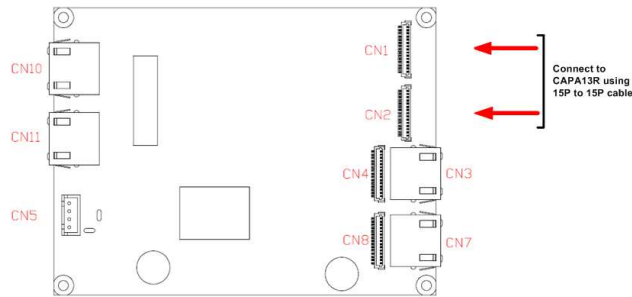
AX93A21 Quick Installation Guide

Applications

The CN10/CN11 are PoE-PSE (Power Over Ethernet-Power Sourcing Equipment) ports which is compliant with IEEE802.3at standard, providing both data connection and electrical power to PoE-PD (Power Over Ethernet-Powered Devices).

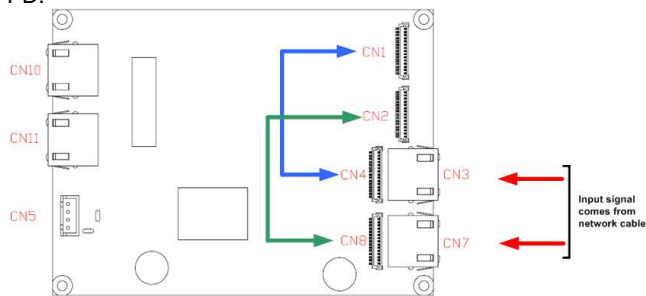
Connection - 1

- (1). Connect CN5 to DC 12V power source.
- (2). Network signal comes from CPU board. The AX93A21 is connected to CPU board (i.e. CAPA13R) through CN1/CN2 using 15P-to-15P cable, see image below.
- (3). After (1) and (2), the CN10/CN11 are available to connect the PoE-PD.



Connection - 2

- (1). Connect CN5 to DC 12V power source.
- (2). Input signal comes through CN3/CN7 from network cable. Connector CN4 is connected to CN1, CN8 to CN2 by using 15P-to-15P cable. Please be warned this connection as the below is not allowed to change.
- (3). After (1) and (2), the CN10/CN11 are available to connect the PoE-PD.

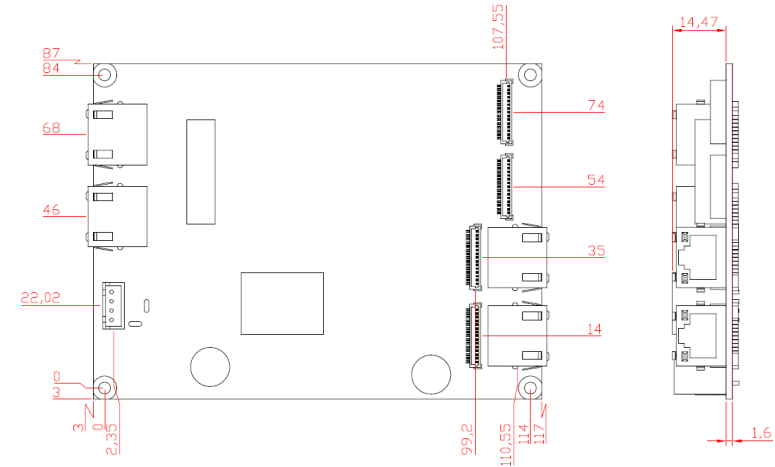


Checklist

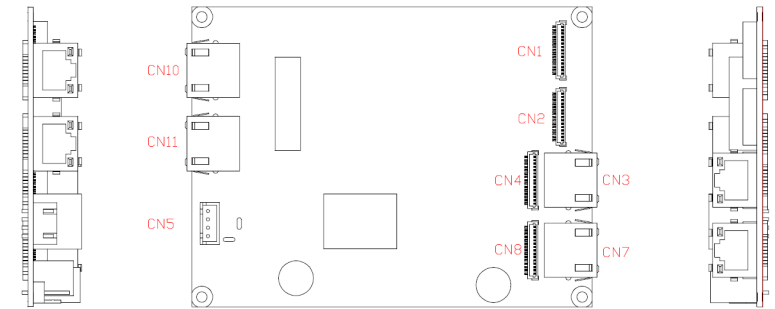
- ✓ PoE Board x1 or PoE Box x1
- ✓ Quick Installation Guide x1
- ✓ Heatsink x1
- ✓ 15P-to-15P cable x2

Note: Please contact your local vendors if any damaged or missing items. DO NOT apply power to the board if there is any damaged component.

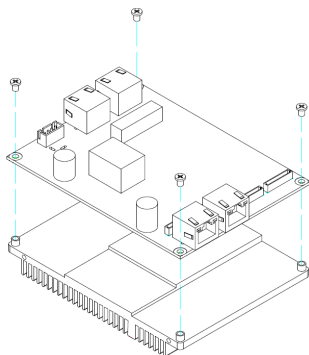
Dimension and Fixing Holes



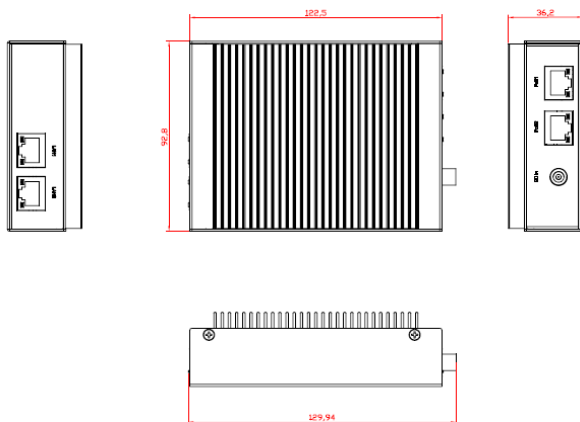
Board Layout



Assembly Drawing



Box Dimension



Connectors

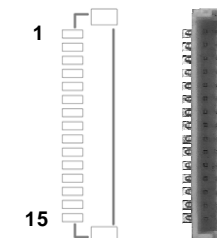
Connector	Description
CN1	Ethernet Wafer Connector Port 1
CN2	Ethernet Wafer Connector Port 2
CN3	Ethernet RJ-45 Port 1
CN4	Ethernet Internal Connector Port 1
CN5	12V DC Power In Connector
CN7	Ethernet RJ-45 Port 2
CN8	Ethernet Internal Connector Port 2

CN10	POE RJ-45 Port 1
CN11	POE RJ-45 Port 2

Ethernet Wafer Connector (CN1 and CN2)

This is a 15-pin (pitch=1.0mm) wafer connector (compliant with JST BM16B-SRSS-TB) for Ethernet interface.

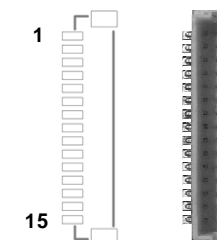
Pin	Signal	Pin	Signal
1	GND	9	MDI2-
2	LAN_LINK_ACT	10	MDI1-
3	+3.3V_SBY	11	MDI3+
4	GND	12	MDI3-
5	MDI0+	13	GND
6	MDI0-	14	LAN_100_LED
7	MDI1+	15	LAN_1000_LED
8	MDI2+		



Ethernet Internal Connector (CN4 and CN8)

This is a 15-pin (pitch=1.0mm) wafer connector (compliant with JST BM16B-SRSS-TB) for Ethernet interface.

Pin	Signal	Pin	Signal
1	GND	9	MDI2-
2	N.C.	10	MDI1-
3	N.C.	11	MDI3+
4	GND	12	MDI3-
5	MDI0+	13	GND
6	MDI0-	14	N.C.
7	MDI1+	15	N.C.
8	MDI2+		



12V DC Power In Connector (CN5)

This is a 4-pin (pitch=2.5mm) wafer connector (compliant with JST B4B-XH-A) for 12V DC power input.

Pin	Signal
1	+12V
2	+12V
3	GND
4	GND

