

Taurus Board Installation Note

This installation note is applicable for SkyEdge II-c Taurus Board (P/N 5920000320010).

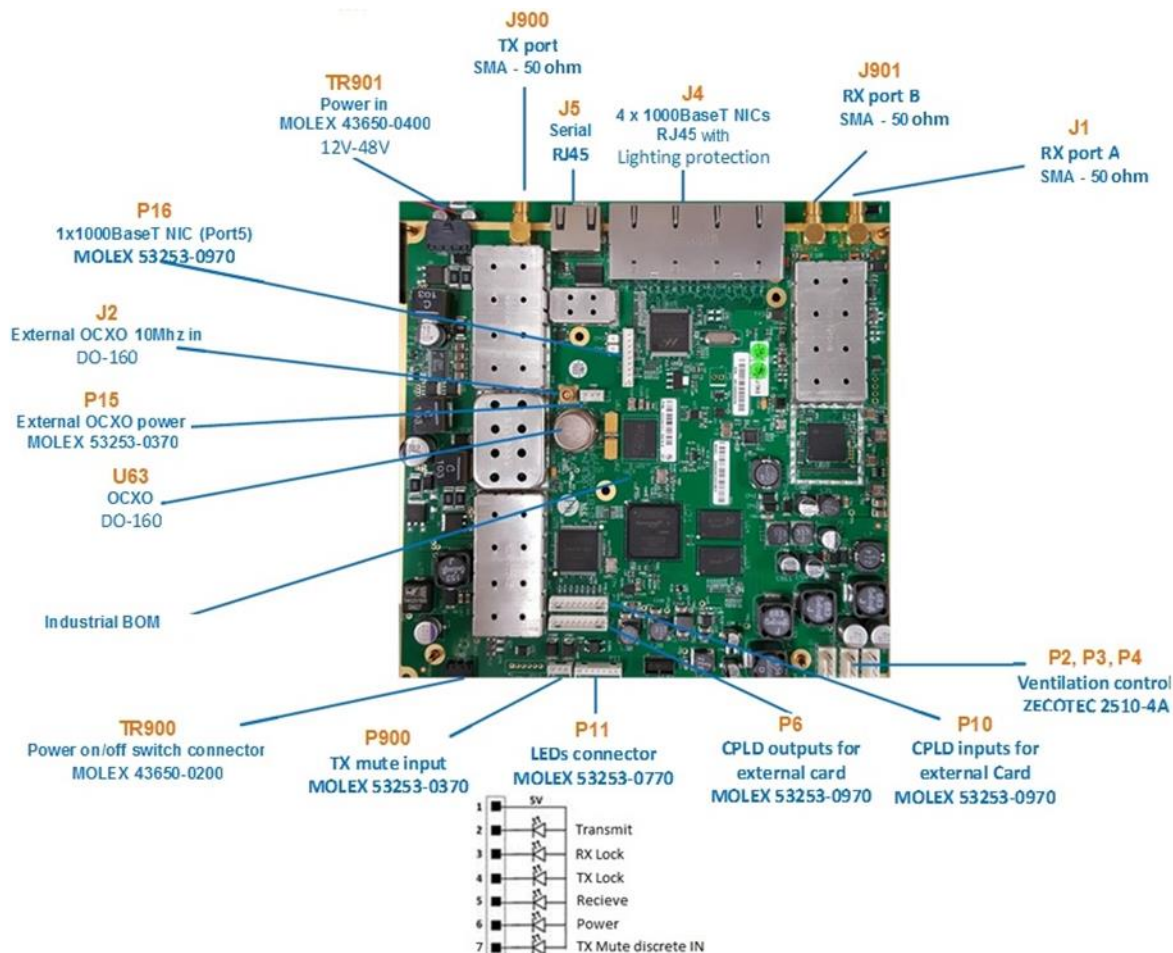


Figure 1: Taurus Board

Table 1: Taurus Board Description

Board ID	Interface	Type	Description
TR901	Power Input	MOLEX 43650-0400 (4 pin)	1=Ground 2=Input Voltage, +12vdc to +48vdc Input
TR900	Power On/Off Switch	MOLEX 43650-0200	Currently not in use. When not connected, power is on.
J900	TX Out	SMA Type, 50 ohms	L-Band Transmit Interface
J1	Rx In A	SMA Type, 50 ohms	L-Band Receive Interface
J901	Rx In B	SMA Type, 50 ohms	L-Band Receive Interface
P900	TX Mute Discrete	MOLEX 53253-0370 (3 pin)	Currently not in use. PIN 1 Ground means TX mute Open means TX enabled PIN 2 – Ground



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Board ID	Interface	Type	Description
P11	LEDs	MOLEX 53253-0770 (8 pin)	PIN 1 = 5vdc PIN 2 = Transmit PIN3 = RX Lock PIN4 = TX Lock PIN 5 = Receive PIN 6 = Power On PIN 7 = TX Mute discrete IN Ground means "1" 5V means "0"
	Onboard LEDs	Onboard LEDs	D9 – Power D7 – RX Lock D6 – TX Lock D5 – Transmit D4 – Receive D45 – TX Mute discrete IN
J4	Traffic and M&C	4-Port, 8-wire RJ-45	4 GigE 4 x Ethernet 10/100/1000BaseT ports, with standard RJ-45 layout. Port 1 is used as a combined data and M&C port.
J5	Serial M&C	RJ-45	
P6	CPLD outputs	MOLEX 53253-0970	For connectivity with external Card PIN 9 = GND PIN 1 = Transmit Mute (3.3V = Disable RF transmit, 0V = Normal) PIN 2 = Data link available (3.3V = Data link available, 0V = Data link is not available) PIN 3 = System available (3.3V = System is available, Ground = System is not available) PIN 4 = Reserved PIN 5 = Reserved PIN 6 = Reserved PIN 7 = Reserved PIN 8 = Reserved


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Board ID	Interface	Type	Description
P10	CPLD Inputs	MOLEX 53253-0970	<p>For connectivity with external Card</p> <p>PIN 9 = GND</p> <p>PIN 1 = Weight on Wheels (Air/Ground) (3.3V = weight on wheels, Ground = no weight on wheels)</p> <p>PIN 2 = Cellular transmit ENABLE (3.3V=Enable, Ground=Disable)</p> <p>PIN 3 = Ground Transmit Enable (3.3V = Enable RF transmission on the ground, Ground = Normal)</p> <p>PIN 4 = Public Services Disable (3.3V = disable passenger services, Ground = Normal)</p> <p>PIN 5 = Cooling system available (3.3V=Available, 0V=Not available)</p> <p>PIN 6 = Remote Manage Enable (3.3V = Remote manage enable, 0V = Remote manage not enabled)</p> <p>PIN 7 = Local Data Load Enable (3.3V = Local data load enabled, Ground = Local data load not enabled)</p> <p>PIN 8 = Factory/Bench Mode (3.3V = Factory/Bench Mode, 0V = Normal)</p>

To install the SkyEdge II-c Taurus Board, the installer must:


- Have relevant technical background
- Have the Taurus Board configuration parameters available

CAUTION



- **THE TAURUS BOARD MUST BE GROUNDED PRIOR TO INSTALLATION BY ATTACHING ONE END OF THE GROUNDING CABLE TO THE GROUNDING STUD ON THE REAR OF THE TAURUS BOARD, AND THE OTHER END TO THE SITE MAIN GROUND CONNECTION.**
- **THE TAURUS BOARD MUST BE CONFIGURED PRIOR TO ATTACHING THE RF CABLES.**
- **THE POWER CABLE MUST BE DISCONNECTED FROM THE TAURUS BOARD PRIOR TO CONNECTING THE RF CABLES.**

CAUTION



IN ORDER TO PREVENT DAMAGE TO THE RF CONNECTORS, SECURE THE CABLES TO A PERMANENT, STATIC OBJECT SUCH AS A TABLE OR PIPE, AT A DISTANCE OF 25-60 CM (10-25 IN.) FROM THE TAURUS BOARD, PRIOR TO CONNECTION.



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General Precautions

- Do not place the Taurus Board in a location that would deviate from typical ambient environmental conditions of temperature, humidity, and moisture.
- Do not place any object on top of the Taurus Board.
- Place the Taurus Board on an even, flat surface.



VSAT AC and DC power supplies are provided by Gilat. If the power to the VSAT is not through an AC or DC adaptor (e.g., batteries, solar panels, rectifier ETC), the power solution must be approved by the Gilat Technical Support.



WARNING

BEFORE INSTALLING THE UNIT, VERIFY THAT THE ANTENNA AND AC POWER CORD ARE GROUNDED SO AS TO PROVIDE PROTECTION AGAINST VOLTAGE SURGES AND STATIC CHARGES. SECTION 810 OF THE US NATIONAL ELECTRICAL CODE, ANSI/NFPA 70, AND SECTION 54 OF THE CANADIAN ELECTRICAL CODE PROVIDE INFORMATION WITH REGARD TO PROPER GROUNDING OF THE MAST AND SUPPORTING STRUCTURE, GROUNDING OF THE LEAD-IN WIRE TO AN ANTENNA DISCHARGE UNIT, SIZE OF GROUNDING CONDUCTORS, LOCATION OF ANTENNA DISCHARGE UNIT, CONNECTION TO GROUNDING ELECTRODES AND REQUIREMENTS FOR THE GROUNDING ELECTRODE.