



# Transmit Receive Interrupter Plug-In Module

## DXE-TRI-PM



DX Engineering Transmit Receive Interrupter Plug-In Module, **DXE-TRI-PM**, provides essential protection from the station's transmitted energy picked up by a receive antenna that is connected to the **DXE-NCC-2** Channel B Receive Antenna Input active front end. This optional custom PCB relay switch device may be installed in any Option Slot of the **Channel B** rear panel board in the NCC-2. When the transceiver keys the RADIO PTT port of the NCC-2, the **DXE-TRI-PM** can open or ground the receive antenna input and the board output, as selected by jumpers. It functions independently and does not affect or depend on the settings of the NCC-2 Bias-Tee Enable circuit that places DC on the receive antenna feedline for Active antennas. The **DXE-TRI-PM** is **only** in the path of the receive antenna input and it also features a Gas Discharge Tube for Channel B front end protection while in the receive mode.



Alternatively, the **DXE-TRI-PM** installed in the **DXE-DMC-2** Dual Module Chassis can interrupt or ground any receive antenna feedline or a receiver input. Jumper settings select opening or grounding of the receive antenna input and receiver output. This receive feedline RF switch is operated by toggling +13.8 VDC, ON for Receive and OFF when Transmitting. The

**DXE-DMC-2** jumper HD5 selects operating DC from either the 2.1mm power connector or the "Receiver Output" coaxial cable with a user supplied DC Bias-Tee device, such as the **DXE-FVI-1** Feedline Voltage Injector. Remote outdoor installation requires a weather resistant cover.

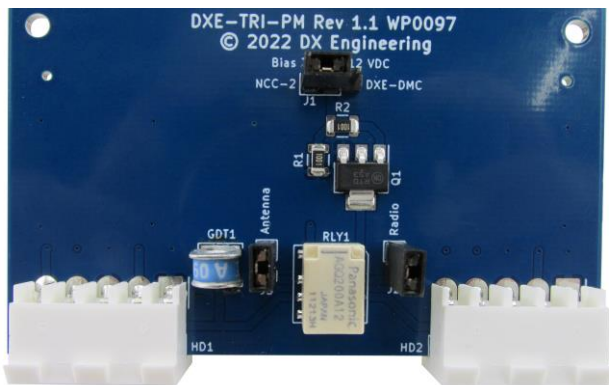
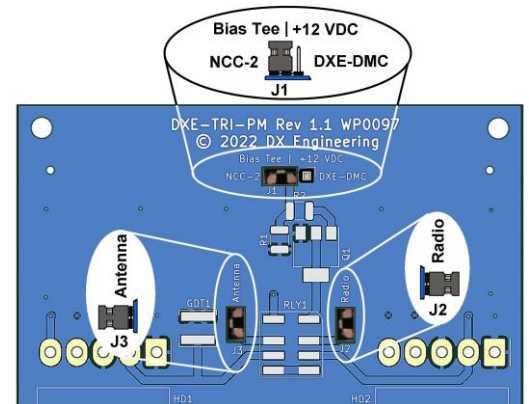
With its Gas Discharge Tube protector, the **DXE-TRI-PM** can provide additional input protection for the NCC-2 Channel A RX ANT IN or the RTR-2 RX ANT IN during receive and by grounding the receive antenna input during transmissions.

There are three jumpers on the **DXE-TRI-PM**.

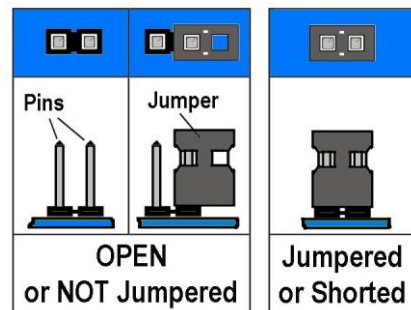
**J1 - Power Source** - NCC-2 (Bias Tee) or +12 VDC via the DXE-DMC. Factory Default is NCC-2 (as shown)

**J2 - RADIO** - Factory Default is both pins shorted together (as shown). This grounds the output line for the RADIO (or NCC-2 CH B front end) when the TRI-PM interrupts receiving during transmission. When J2 pins are Open (No Jumper), the output line for RADIO (NCC-2 CH B front end) goes to an open state (not grounded) when the TRI-PM interrupts receiving during transmission.

**J3 - ANTENNA** - Factory Default is both pins shorted together (as shown). This grounds the Receive Antenna input line when the TRI-PM interrupts receiving during transmission. When J3 pins are Open (No Jumper), the Receive Antenna input line goes to an open state (not grounded) when the TRI-PM interrupts receiving during transmission.



J2 and J3 (Both Shorted - Factory Default)



## Instruction Updates

Every effort is made to supply the latest instruction sheet revision with each product. Occasionally an instruction sheet will be updated between the time your DX Engineering product is shipped and when you receive it. Please check the DX Engineering web site ([www.dxengineering.com](http://www.dxengineering.com)) for the latest revision instruction sheet.

## Warranty

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## Technical Support

If you have questions about DX Engineering products, or if you experience difficulties during the installation, contact DX Engineering at (330) 572-3200. You can also e-mail us at: [DXEngineering@DXEngineering.com](mailto:DXEngineering@DXEngineering.com)

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DXE-TRI-PM-INS Rev 0



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