

## Installation Instruction

**Remote Units, Extension Units, Master Units or Modules has to be mounted by professional / special trained installer.**

### INSTALL THE RF MODULE(S)

The following sections guide you through the installation of an RF Module into a Remote Unit chassis. The process to install the four different types of RF Modules is basically the same; however, differences are noted and should be followed.

**NOTE:** In the following steps, the RF cables and connectors are referred to as MOD N TX0/RX0 and as MOD N TX1/RX1 where N equals A, B, C, or D.

**NOTE:** When installing RF Modules, populate the RF Modules from highest frequency band to lowest within the Remote Unit chassis. Likewise for power output, populate from the bottom bay to the top; higher output to lower output. That is, for a deployment with 2100 40W, 1900 40W, 850 20W and 700 20W MIMO, install the RF Modules as follows:

- 2100 40W RF Module in Bay A
- 1900 40W RF Module in Bay B
- 850 20W RF Module in Bay C
- 700 20W MIMO RF Module in Bay D.

### SAFETY PRECAUTIONS

- CAUTION!** This is restricted access equipment and only qualified service personnel should service and operate this equipment using appropriate tools.
- CAUTION!** Wet conditions increase the potential for receiving an electrical shock when installing or using electrically-powered equipment. To prevent electrical shock, never install or use electrical equipment in a wet location or during a lightning storm.
- CAUTION!** Always allow sufficient fiber length to permit routing of patch cords and pigtails without severe bends. Fiber optic patch cords or pigtails may be permanently damaged if bent or curved to a radius of less than 2 inches (5.1 cm).
- CAUTION!** Exterior surfaces of the Prism Remote Unit may be hot. Use caution during servicing.
- CAUTION!** Service personnel must confirm that the perimeter gasket and door-to-door gaskets are in place when closing the Remote Unit doors after servicing.
- CAUTION!** This equipment uses a Class 1 Laser according to FDA/CDRH rules. Laser radiation can seriously damage the retina of the eye. Do not look into the ends of any optical fiber. Do not look directly into the optical transceiver of any digital unit or exposure to laser radiation may result. An optical power meter should be used to verify active fibers. A protective cap or hood MUST be immediately placed over any radiating transceiver or optical fiber connector to avoid the potential of dangerous amounts of radiation exposure. This practice also prevents dirt particles from entering the adapter or connector.
- CAUTION!** This system is an RF Transmitter and continuously emits RF energy. Maintain 3 foot (91.4 cm) minimum clearance from the antenna while the system is operating. Wherever possible, shut down the RAN before servicing the antenna.

## GUARD AGAINST DAMAGE FROM ELECTRO-STATIC DISCHARGE

**CAUTION!** Electro-Static Discharge (ESD) can damage electronic components. To prevent ESD damage, always wear an ESD wrist strap when working with a Prism Remote Unit or when handling any of its components—including the RF Modules. Connect the ground wire on the ESD wrist strap to an earth ground source before touching the Prism Remote Unit or any of its components. Wear the wrist strap the entire time that you work with the Prism Remote Unit and its components.

**CAUTION!** Place Prism RF Modules in anti-static packing material when transporting or storing them.

## UNPACK AND INSPECT THE RF MODULE

- 1 Inspect the exterior of the shipping container(s) for evidence of rough handling that may have damaged the components in the container.
- 2 Unpack each container while carefully checking the contents for damage and verify with the packing slip.
- 3 If damage is found or parts are missing, file a claim with the commercial carrier and notify CommScope Customer Service (see ["DCCS Global Technical Support" on page 119](#)). Save the damaged cartons for inspection by the carrier.
- 4 Save all shipping containers for use if the equipment requires shipment at a future date.

**CAUTION!** Handle the RF Module with care during installation. Be especially careful to not damage the thermal-interface material (TIM), which is attached to the LPA, DARTs, and/or Motherboard with TX/RX boards. If the TIM is damaged, the LPA can overheat. Before installing the RF Module, check to see if the heatsink material is gouged or cracked. If the TIM is damaged, do not install the RF Module and contact CommScope for assistance (see ["DCCS Global Technical Support" on page 119](#) for contact information).

**CAUTION!** If the thermal-interface material is damaged, the installation and use of the RF Module may void the warranty of the RF Module.