

Internal Photographs of NextDent 300 Printer RFID Antennas and Controller

Antennas: The eight antenna boards are mounted on a grounded sheet metal plate with metal removed beneath the antenna as to not interfere with the RF operation. This sheet metal plate is then enclosed within a grounded sheet metal material drawer assembly. The antennas are exposed to the tag locations on the consumable material bottles as the material bottle lowers with bottle insertion.



Material Distribution Module (MDM) with material bottles installed

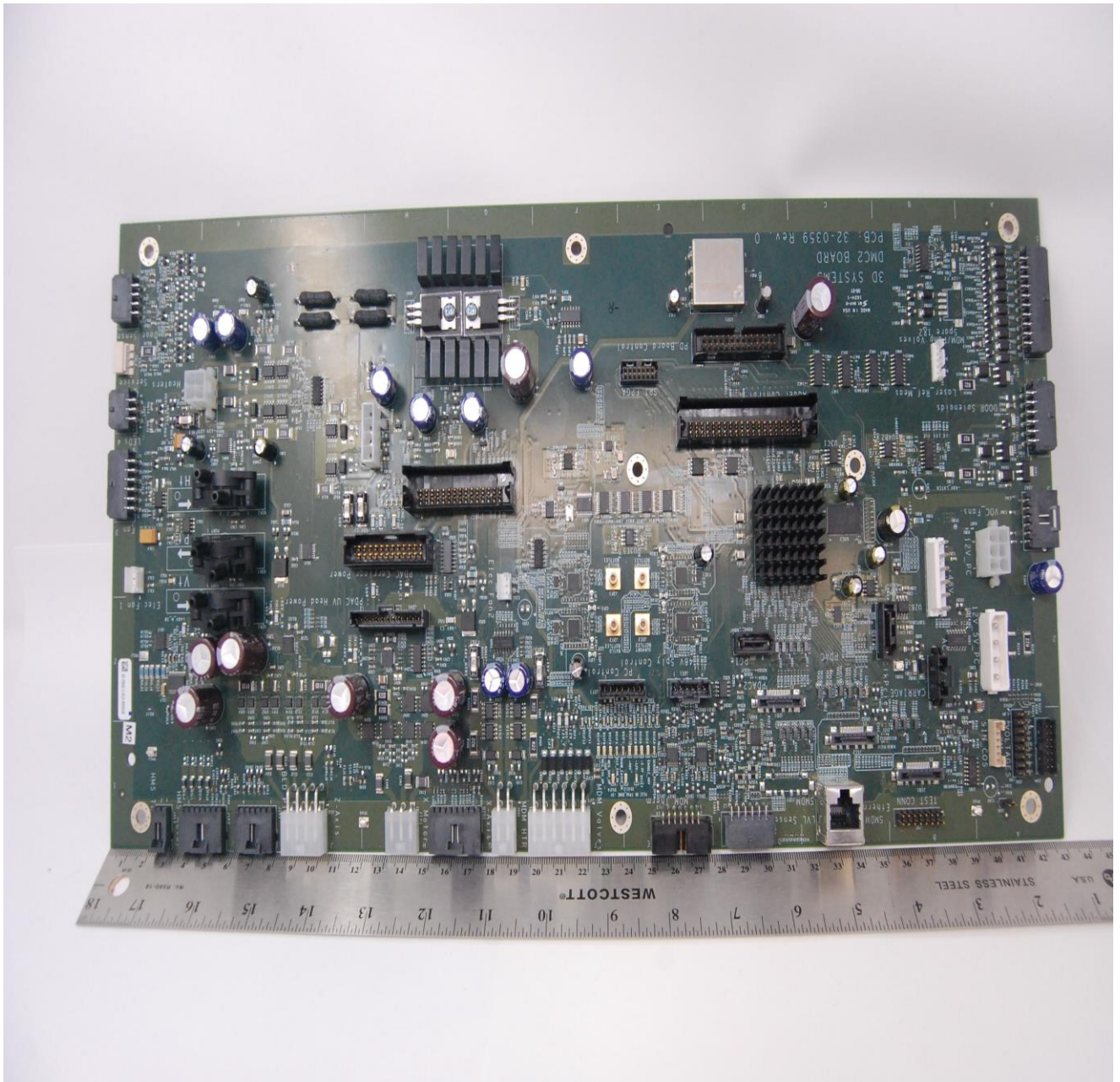


Material Distribution Module (MDM) with material bottles removed: Antenna locations are shown using arrows

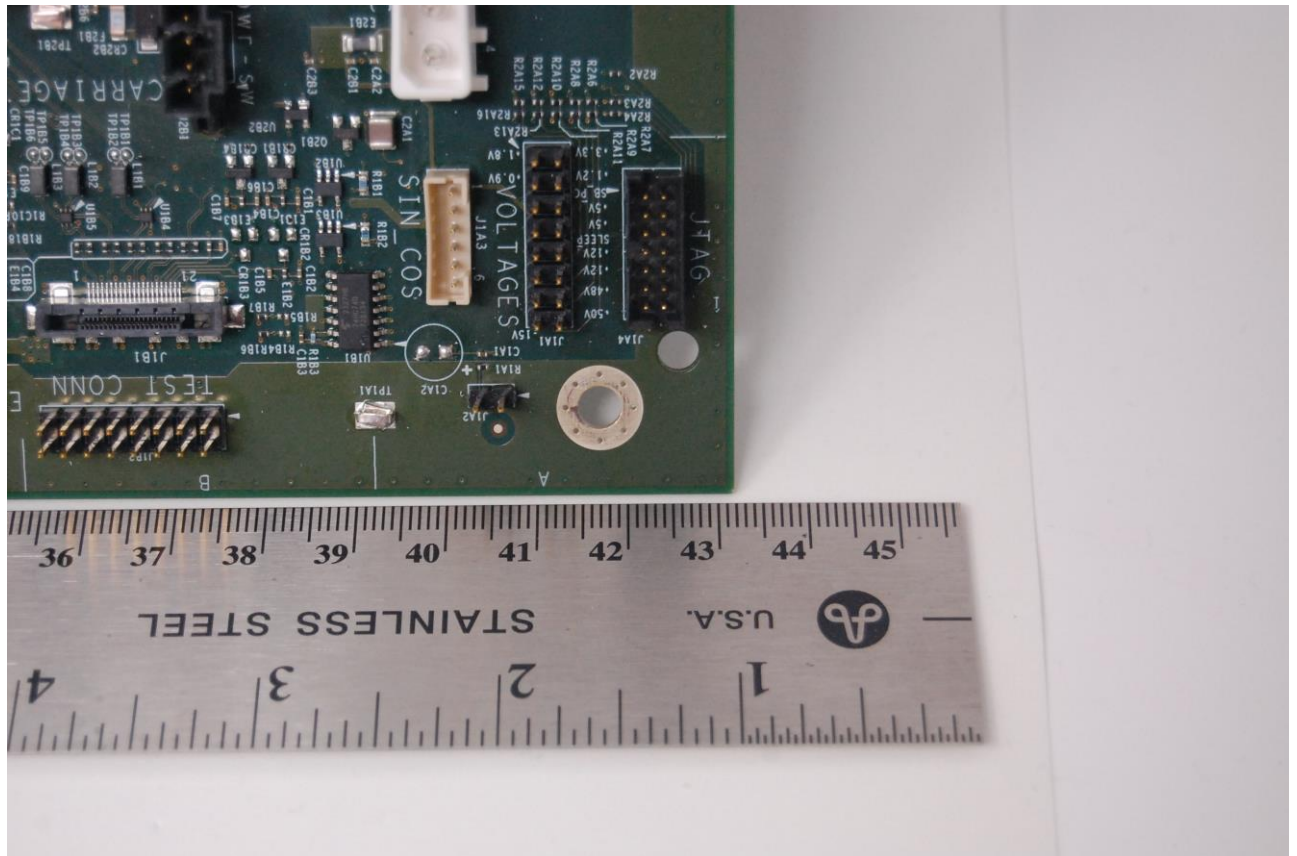


Material Distribution Module (MDM) with support material bottles removed: Close-up view of antenna locations

RFID Controller: The RFID controller circuitry is located on the DMC circuit board. It is permanently mounted inside a metal electronics enclosure that is screwed shut. The metal electronics enclosure is accessible by removing the rear door.



Top view of RFID circuitry and antenna ports on the DMC board



Length Detail