



## SERVICE BULLETIN – SD CARD REPLACEMENT

### Product: Antenna System Monitor

**Subject: SD Card Replacement**

**Date: 25<sup>th</sup> March 2015**

#### Description

This Service Bulletin outlines the procedure for replacing the SD memory card in the the Antenna System Monitor (ASM) series products.

**Note:** Please also refer to Service Bulletin ASM014.

**WARNING:** Please read the following ESD Precautions prior to attempting to open the ASM and replacing the SD card.

#### Preparing for SD Card Replacement

##### ESD Precautions

The microSD card is protected against static discharge because it is designed to be handled under a wide variety of adverse conditions. Similarly, the ASM is also robust in its construction. Ideally, the microSD card replacement should be undertaken in an ESD safe work area which should include:

- An antistatic and grounded work surface
- A wrist-strap to ground your body to the work surface
- A grounding strap to connect the ASM housing to the work surface
- Antistatic and grounded floor (or mat) and chair
- An antistatic coat for the operator
- Footware which is grounded and includes a heel strap

If such facilities are not available, you can take reasonable practical precautions when swapping the microSD card including:

- Make sure your shoes, clothing and chair do not provoke static conditions (i.e. avoid synthetic materials)
- Work on a low static work surface e.g. use a piece of antistatic bubble wrap or an antistatic IC packing bag. You can work on a metal surface but you must ensure you touch the metal before touching the ASM or microSD card
- When handling the ASM, always touch the metal housing first to bring your body and the ASM to the same potential
- Avoid touching the microSD card contacts
- When inserting the microSD card, always maintain contact with the ASM housing (e.g. hold the ASM with one hand or rest your hand on the housing as you insert the card)
- Work in a room with humidity above about 30-40% to minimise static levels in the work area (air conditioning and/or sub-zero temperatures can make this problematic)

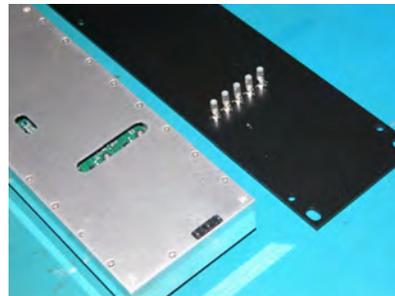
**NOTE:** RFI has tested and recommends the use of Panasonic Model RP-SMKC04DA1 SD Cards for use in the Antenna System Monitor (ASM). Alternate brands or models of SD card may not perform correctly and their use is not recommended.

### MicroSD card Replacement Procedure

1. Place the ASM face up (connectors down) on the work surface



2. Remove the 6 black M4x12 pozi-drive screws securing the black front panel to the ASM
3. Carefully lift off the front panel, taking care not to break off or displace the 5 LED light pipes



4. Remove the two security labels at each end of the ASM



5. Remove the 51 M2.5x6 countersunk pozi-drive screws securing the cover to the housing
6. Carefully lift off the cover. The thermal pad on the left hand end needs gentle pressure to unstick it from the top of the power supply module



7. Find the microSD card holder on the PCB between the microprocessor IC and the battery



8. Open the microSD card holder by using your fingernail to slide the holder towards the centre of the PCB (in the direction of the OPEN arrow on the holder). The holder will then pop up slightly



9. Swap the microSD cards by opening the holder fully, noting the orientation of the card



10. Close the holder by pressing the cover down and sliding it towards the edge of the PCB (in the direction of the LOCK arrow on the holder) until it clicks firmly into place



11. Refit the cover to the housing and replace the 51 M2.5x6 countersunk pozi-drive screws to secure the cover

Refit the front panel, taking care not to dislodge the LED light pipes in the process. Replace the 6 black M4x12 pozi-drive screws to secure the black front panel.

- END -