Info

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Date	2022 05 19		
To	TUV SUD		

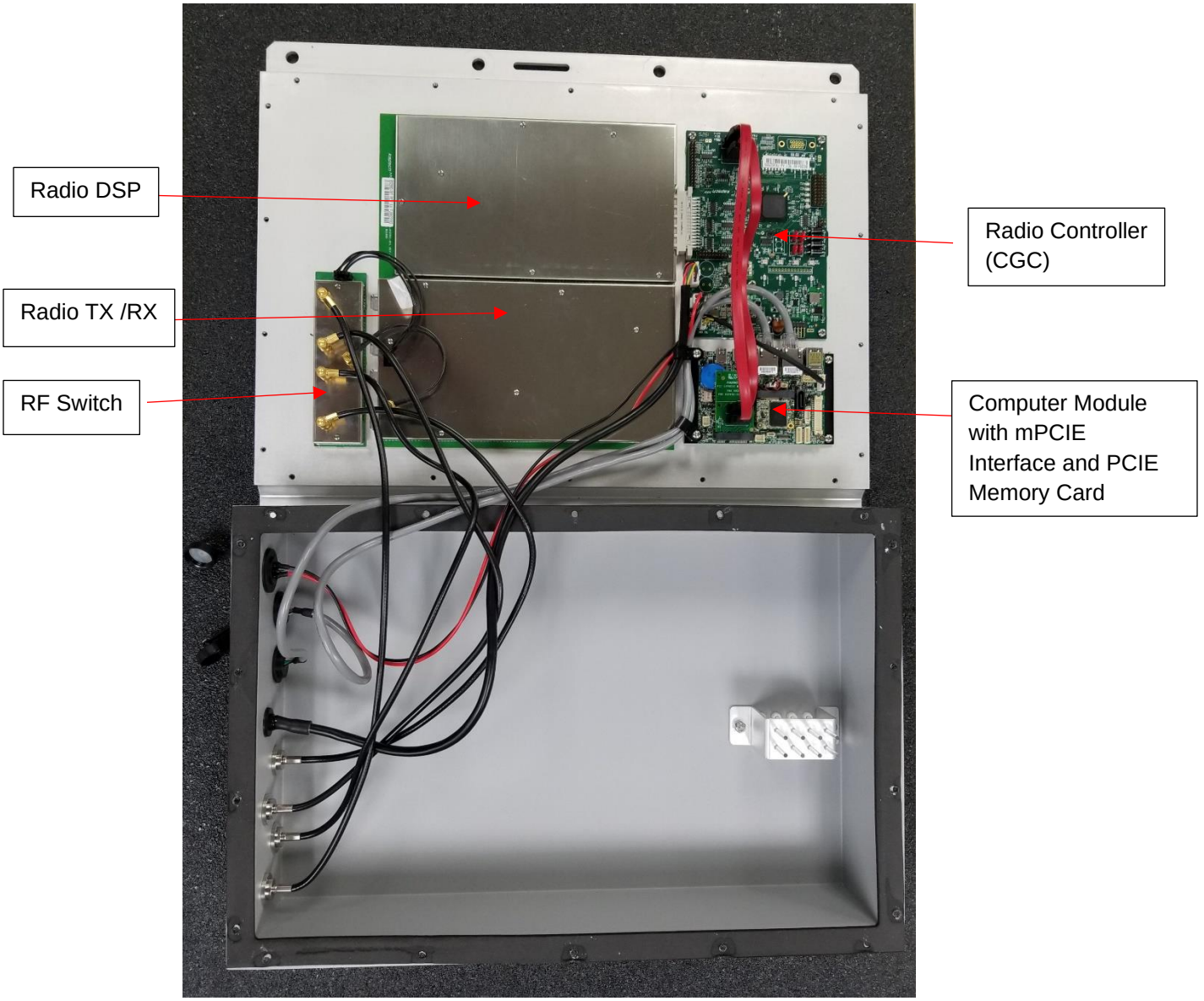
MPR 4.1 – Model - 802890 Internal Photographs

References: FCC ID: JQU802890
IC: 2665A-802890

The MPR 4.1 Reader is a single multi-protocol radio with four multiplexed ports. The MPR 4.1 is physically a NEMA 4 enclosed unit. The reader operates from DC power (19 – 30VDC) and consumes 50 Watts of power. Internally it consists of a Radio (transceiver), a RF Switch and Reader Electronics PWAs: CGC and Computer Module all mounted on a common metal heatsink plate, interconnected and covered by a common metal cover. The Computer Module comprises a Single Board Computer with 2 daughter cards (a mPCIE interface card and a PCIE Memory Card). The Radio PWA, is organised into an RF part and a DSP part and these parts and the RF Switch have additionally separate metal shields and covers.

The internal photographs of the model tested are shown below.

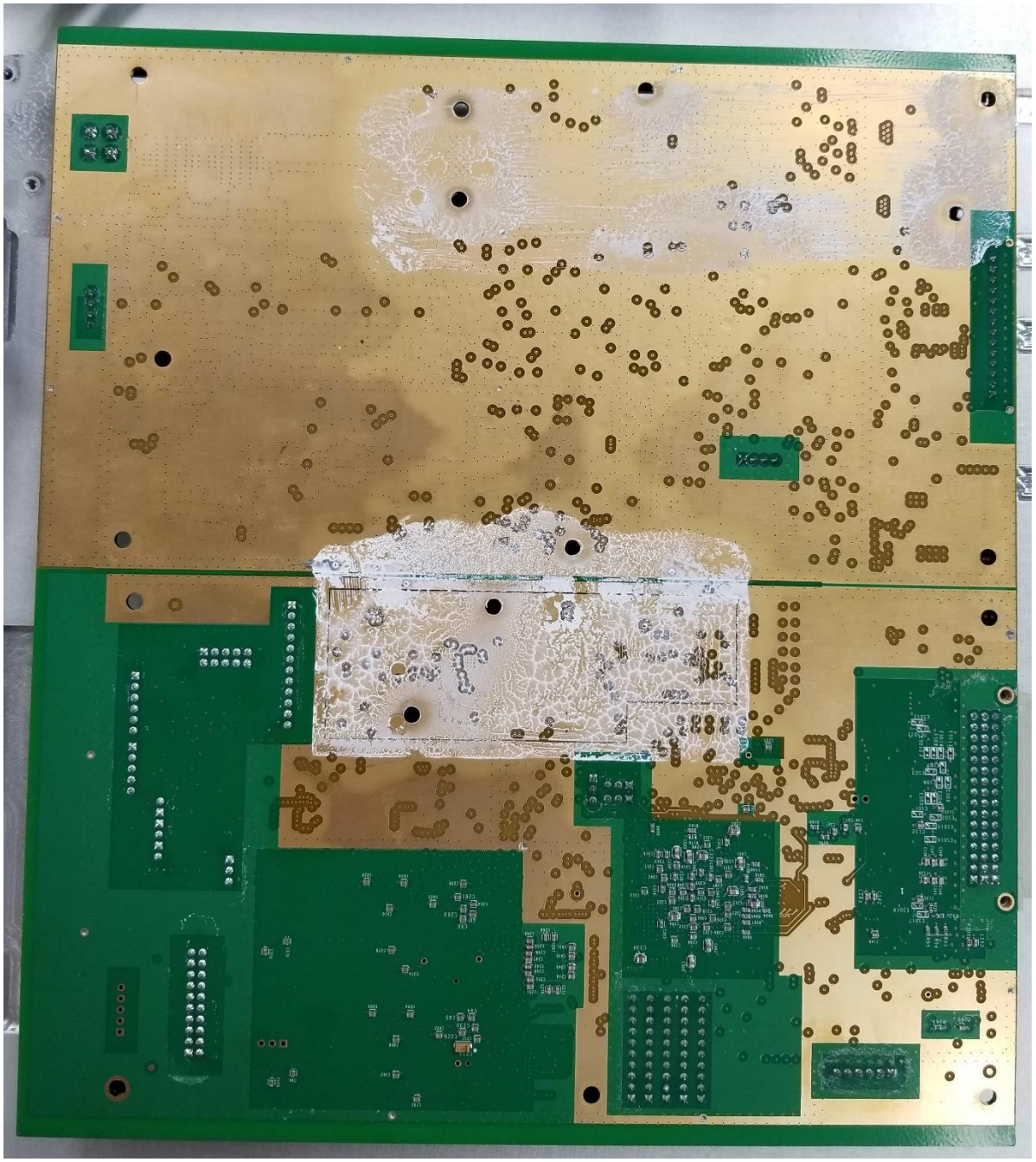
Module Assembly of Model 802890, Radio PWA and RF Switch PWA covered



Module Assembly of Model 802890, Radio PWA and RF Switch PWA uncovered

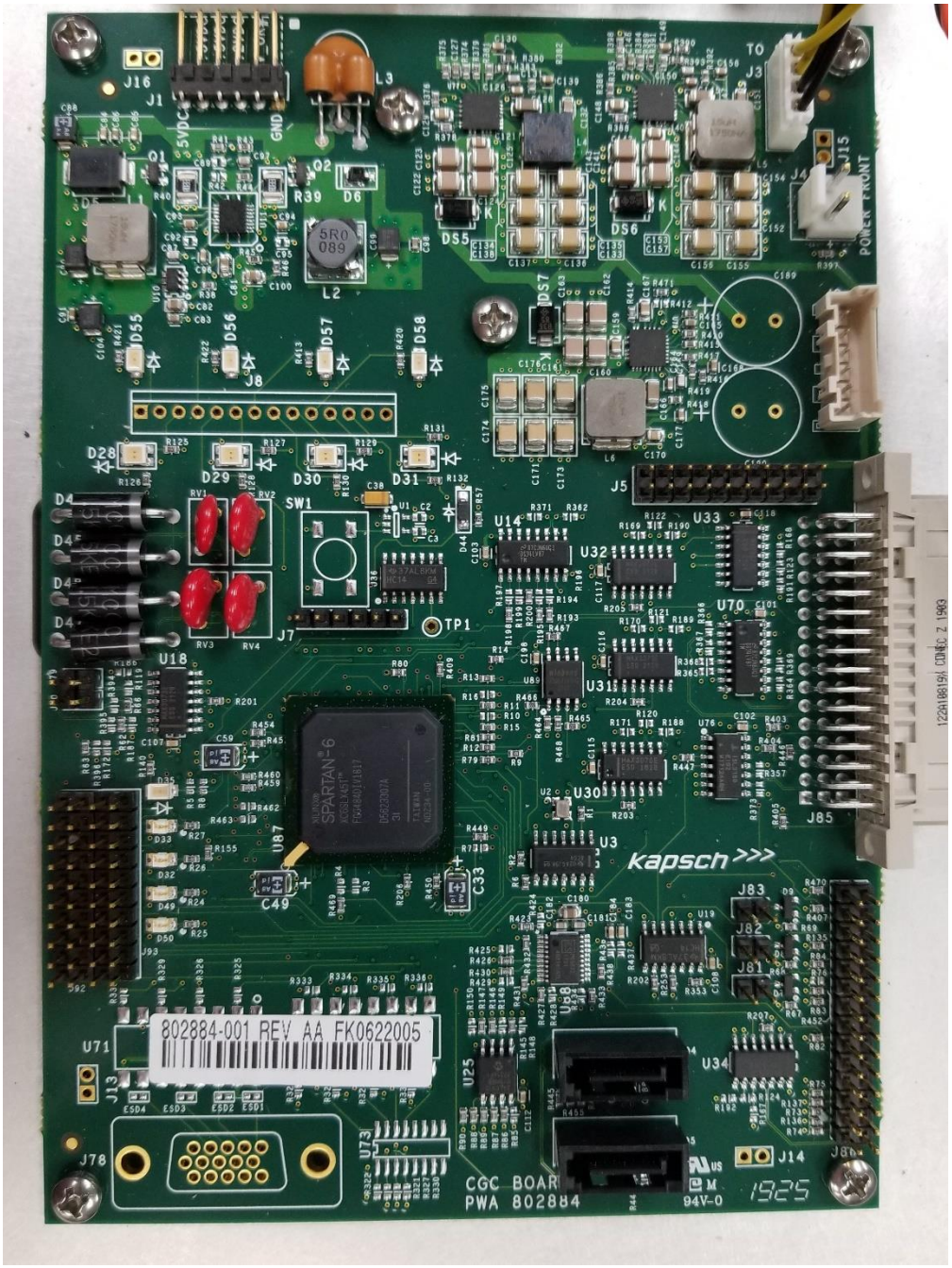
Model 802890 – Radio PWA- Front

Model 802890 – Radio PWA- Back

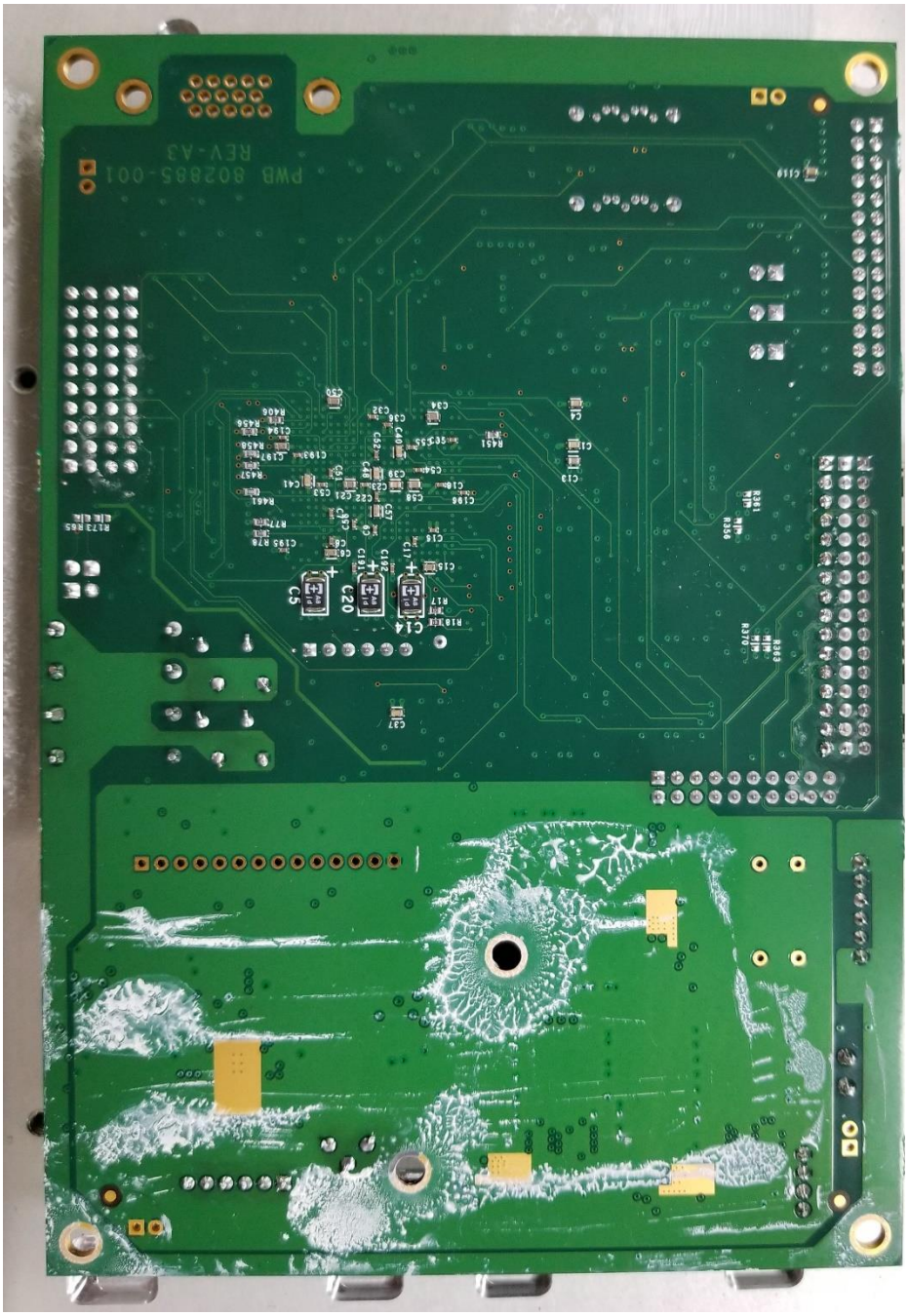


Model 802890 – RF Switch PWA- Front
There are no components on the back side of the RF Switch

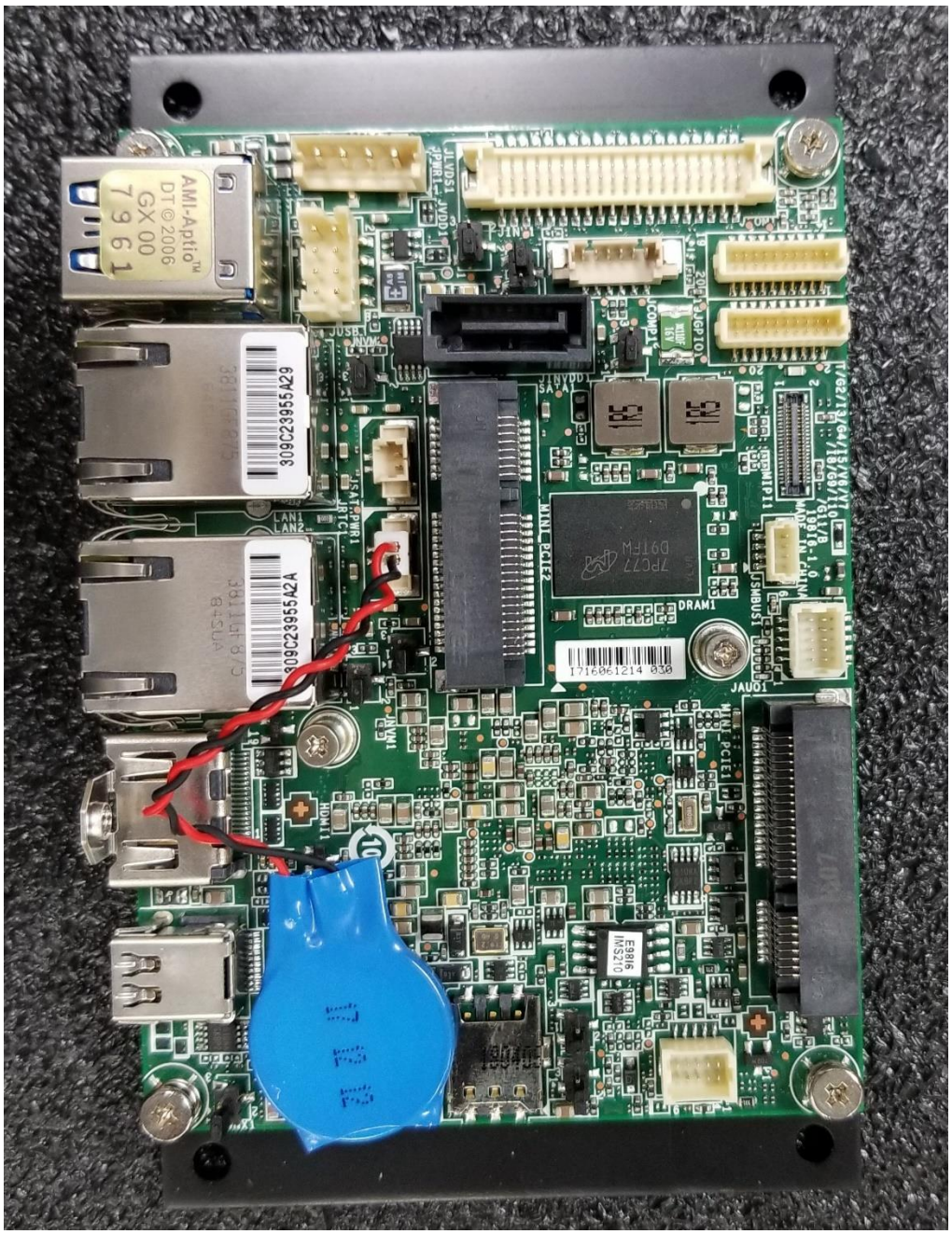
Model 802890 – RF Radio Controller (CGC) PWA - Front



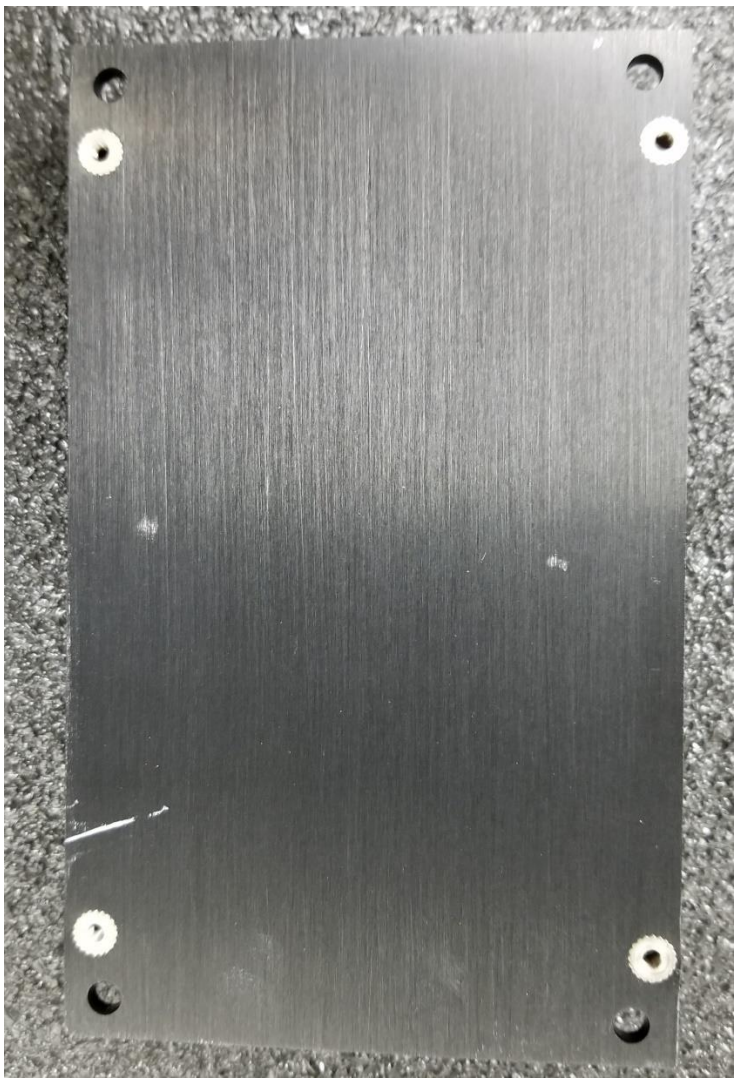
Model 802890 – RF Radio Controller (CGC) PWA – Back



Model 802890 – Single Board Computer (Computer Module without daughter cards)
The Single Board Computer is supplied by MSI, part number MSI 919-9816-005



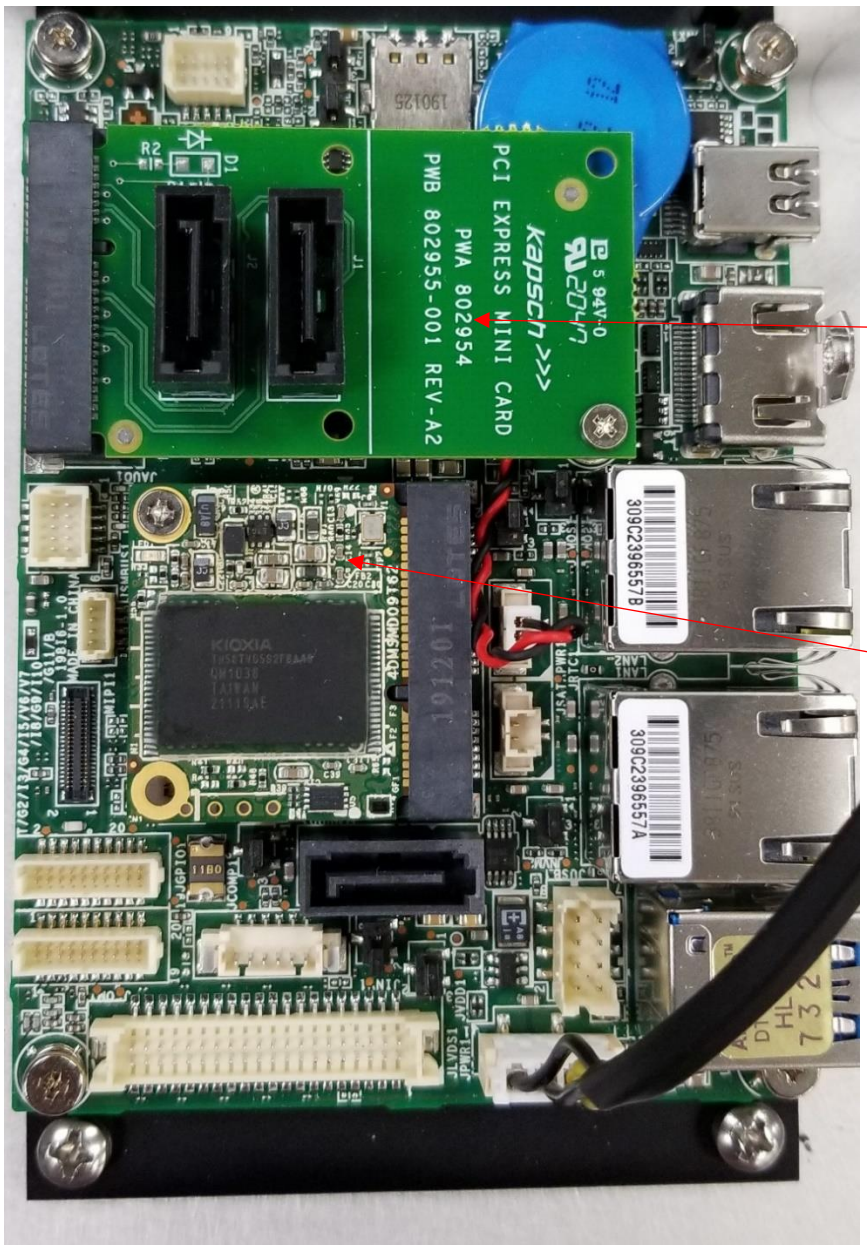
Model 802890 – Single Board Computer – Back
The Single Board Computer is supplied with its own heatsink which is mounted on the common heatsink plate of Model 802890



Model 802890 – Computer Module (Single Board Computer with daughter cards: PCIE Memory Card and mPCIE Cable Adapter PWA 802954)

There are no components on the back side of the mPCIE Cable Adapter PWA 802954

The PCIE Memory Card is supplied by Innodisk, part number DEMSM-04GD09SWADB



The PCIE Memory Card, Innodisk part number DEMSM-04GD09SWADB - Back