

**Info**

Number	802890 C2PC Application	Author	Alastair Malarky
Date	2023 03 01		
To	TUV SUD		

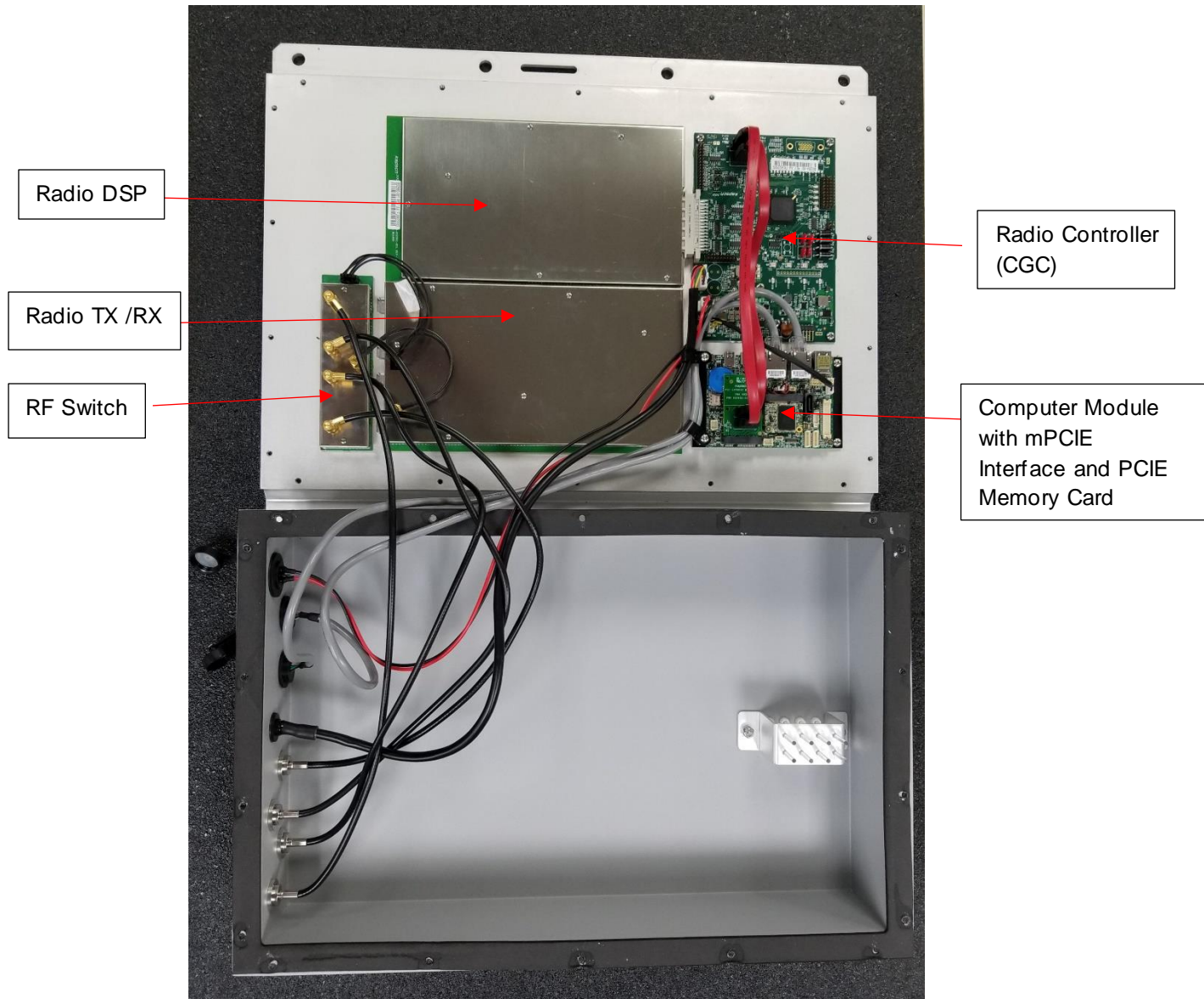
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**MPR 4.1 – Model - 802890 Internal Photographs**

**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 (which contains the C2PC changes) and a DSP part. 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**

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

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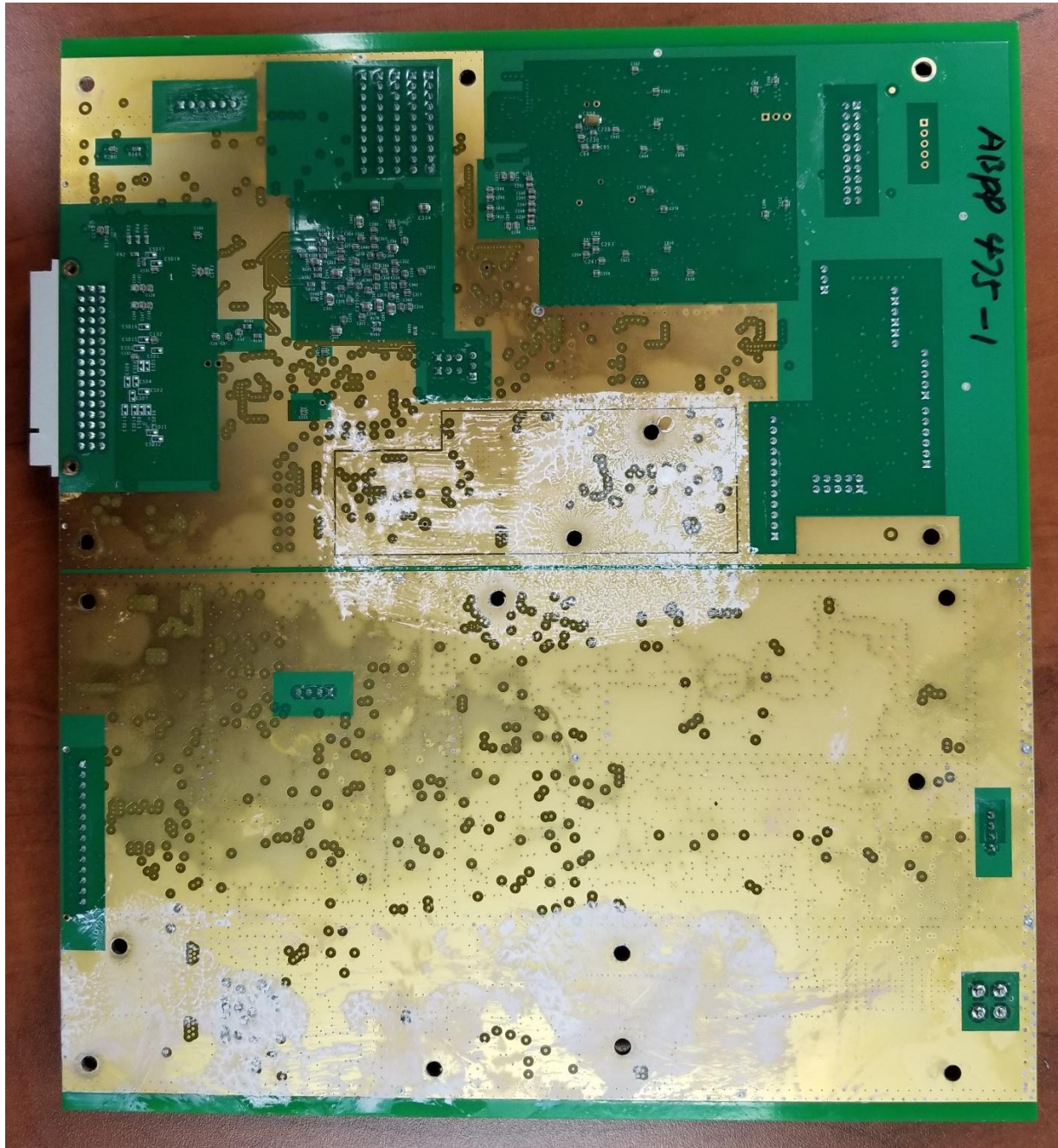


**Model 802890 – Radio PWA- Front**

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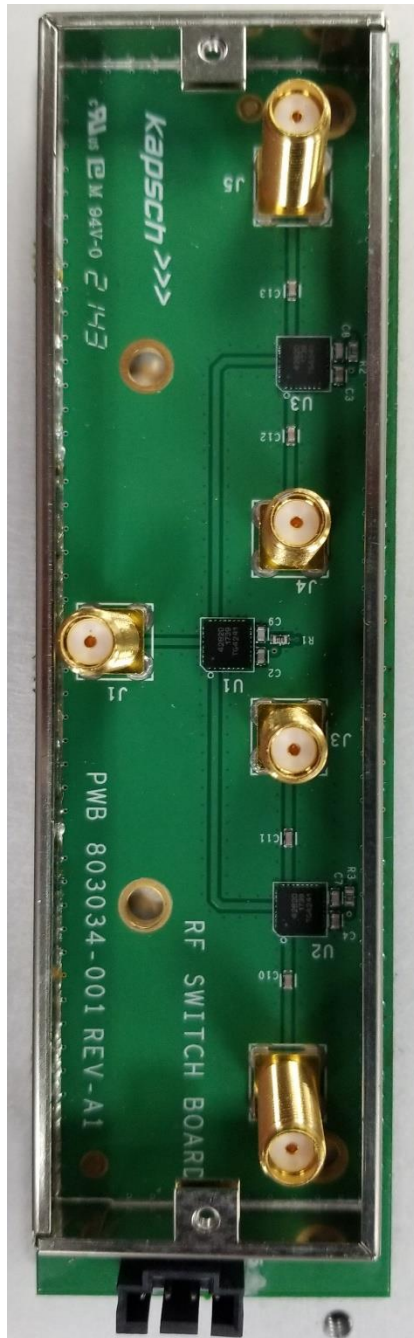
**Model 802890 – Radio PWA- Back**

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**Model 802890 – RF Switch PWA- Front**

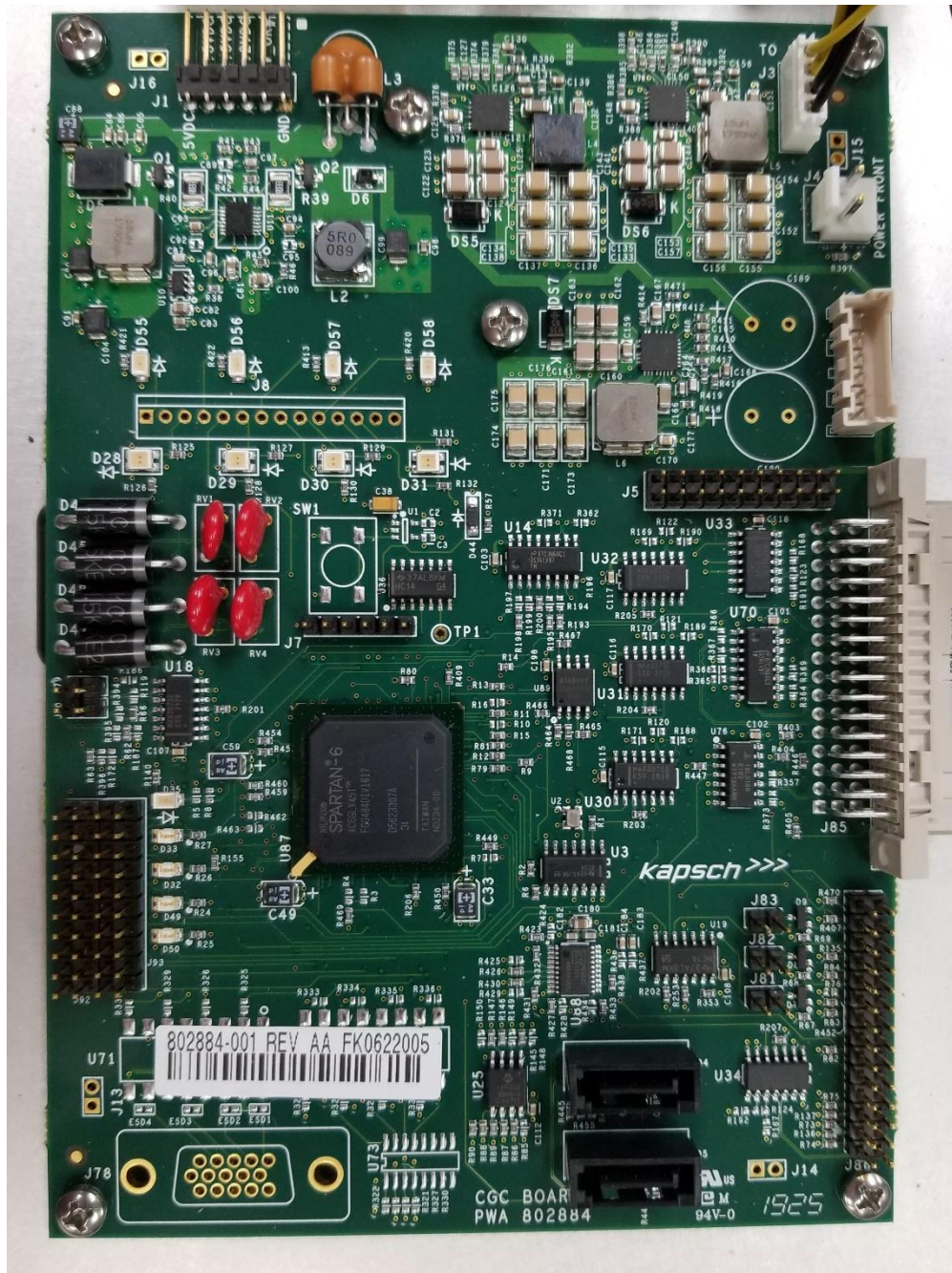
There are no components on the back side of the RF Switch



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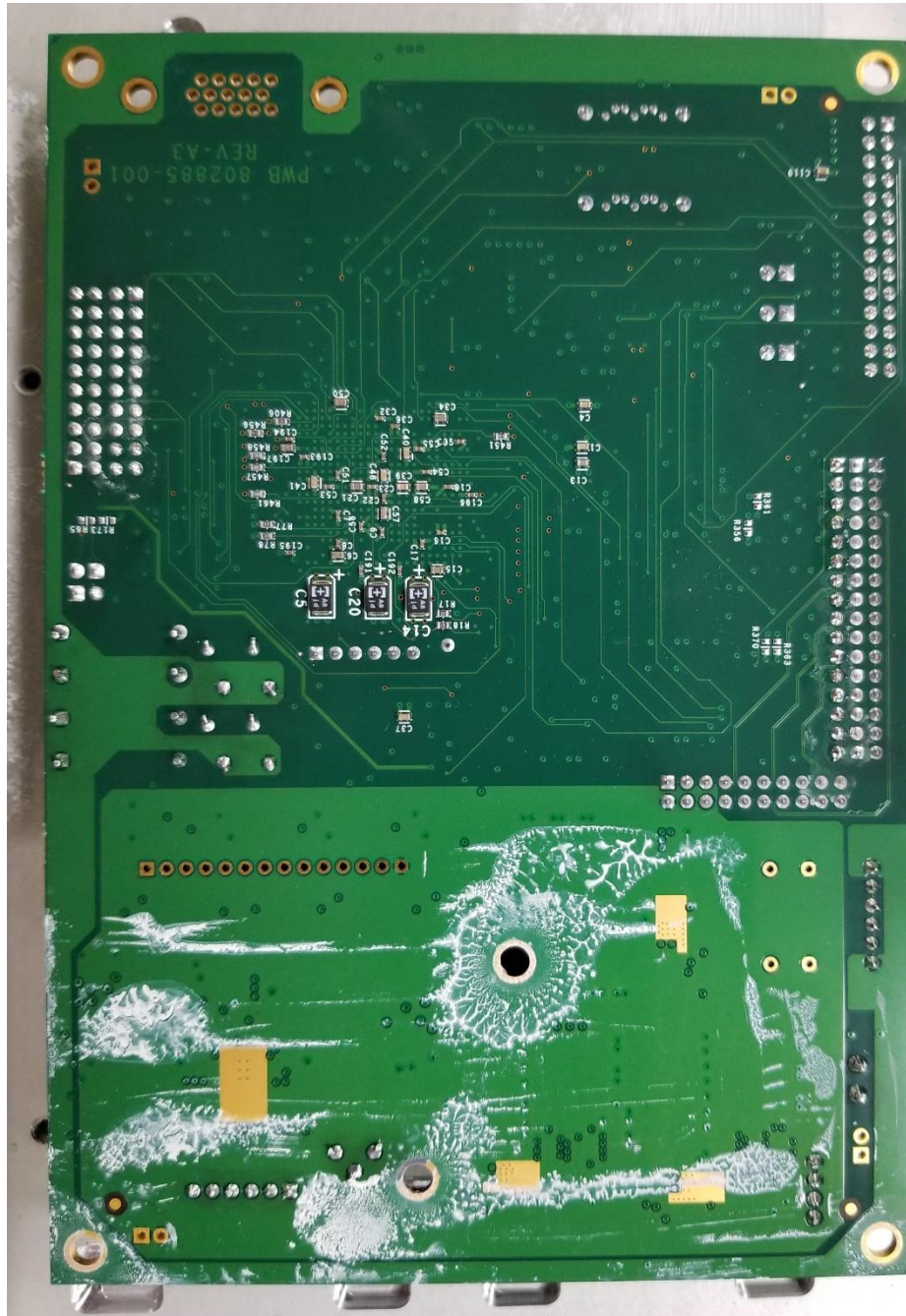
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**Model 802890 – RF Radio Controller (CGC) PWA - Front**

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

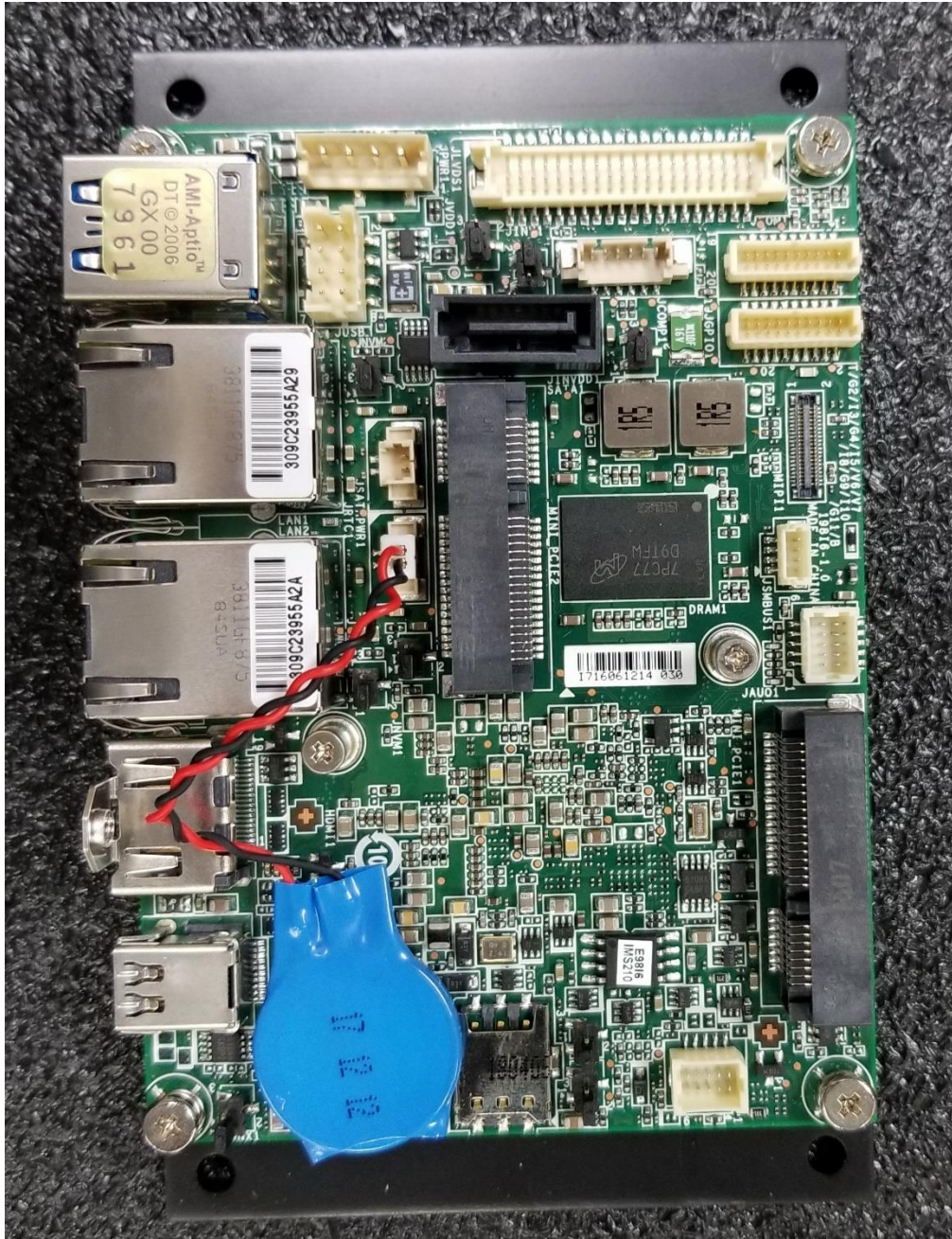
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**Model 802890 – Single Board Computer (Computer Module without daughter cards)**

The Single Board Computer is supplied by MSI, part number MSI 919-9816-005



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**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)**

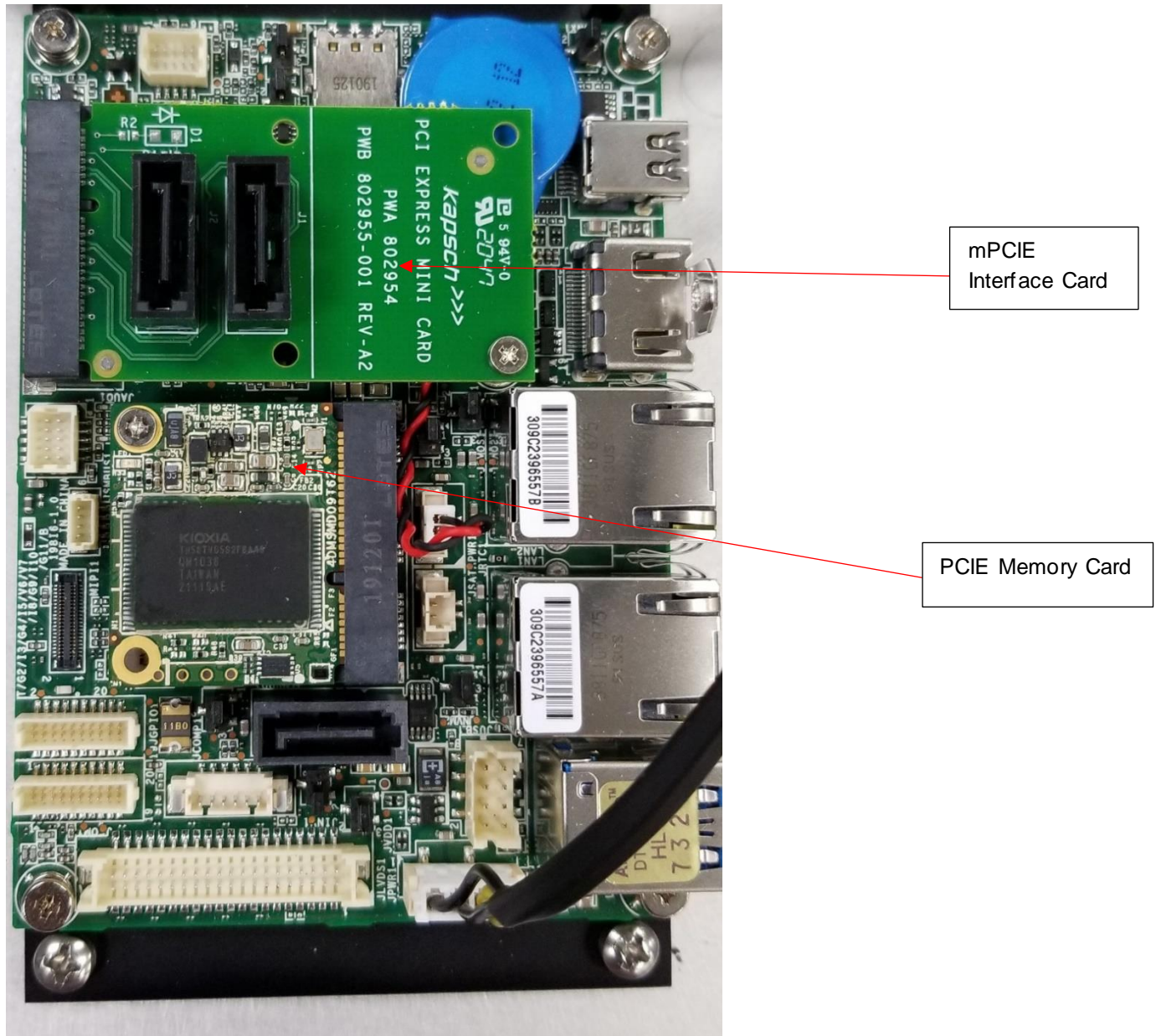
There are no components on the back side of the mPCIE Cable Adapter PWA 802954

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



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

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