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# RF MATRIX SYSTEM

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## (RMM200)

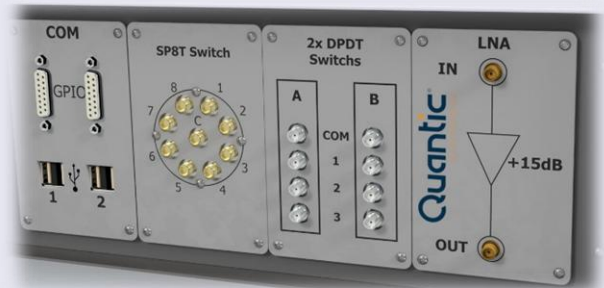


[www.amcad-mw.com](http://www.amcad-mw.com)

# SYSTEM CATEGORY : CONFIGURABLE MATRIX

## System description

The RMM200 is a multi-channel modular rackmount platform that can accommodate different RF functionalities. Using RMM200 platform, the user can create his own matrix, but can do more by combining RF functionalities inside one rack. The system exists in 3U with 4 slots and 6U with 8 slots. Specific custom design can be tailored.



## MAIN FEATURES

- Compact and efficient design
- Rugged 3U 4 front slots system
- Slots can accommodate different functionalities
- Ethernet and USB remote control
- SCPI compliant and Web server embedded

## SLOT FUNCTIONALITIES

- Electro-mechanical relays from DC to 40GHz.
- Solid state switches up to 40GHz
- Power dividers, LNA, Mixers, Filters...
- X-Microwave connectorized blocks
- Step attenuators, Phase shifters...
- Your own feature
- Your own RF CHAIN

## TYPICAL APPLICATIONS

- Automated Test Equipment (ATE)
- Wireless communication systems
- Radars systems
- Satellite and Ground Station systems

## **Electromechanical switches**

- Indicators
- Absorptive and reflective
- From DC to 40GHz
- Different powers
- DC-18GHz : SPDT, SPnT, DPDT
- DC-26,5GHz : SPDT, SPnT, DPDT
- DC-40GHz : SPDT, SPnT, DPDT

## **Waveguide switches**

- From 6GHz to 110GHz
- DPDT

## **X-microwave block**

- Connectorized rf blocks
- Passive or active blocks
- AMCAD integrates dedicated Chain in a slot embedding power supply, digital and analog control.
- Dedicated board for digital IO, I2C and SPI control.
- Dedicated board for analog board DAC, ADC...
- Dedicated board for power supply blocks : 5V, +/-3,3V...

**Quantic™ X-Microwave**

## **SYSTEM OPTIONS**

- **4 slots in the front and 3 slots in the rear (3U height)**
- **Large touch screen in the front and 3 slots in the rear (3U height)**
- **8 slots in the front and 6 slots in the rear (6U height)**
- **Large touch screen in the front and 6 slots in the rear (6U height)**
- **Dedicated front panel**
- **USBTMC only**



## **INSIDE THE SYSTEM**

- **4 USB HOST**
- **Batch of GPIO**
- **I2C,SPI,USART...**
- **Compatible with different technologies of relays**
- **Main power DC 24V**
- **Option 600W SMU adjustable from 5V to 48V**
- **ARM core with Linux embedded**
- **Ethernet & USBTMC**

# Warranty

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Any AMCAD product comes with a two-year parts and labor warranty, when returned to our workshops. A phone support service is also available for the same period.

At the end of the initial two-year period, a further contract can be subscribed, including:

- a preventive functional check and calibration of the modules (onsite or in our workshop)
- a further two-year warranty period

# Quality Regulations & Environment

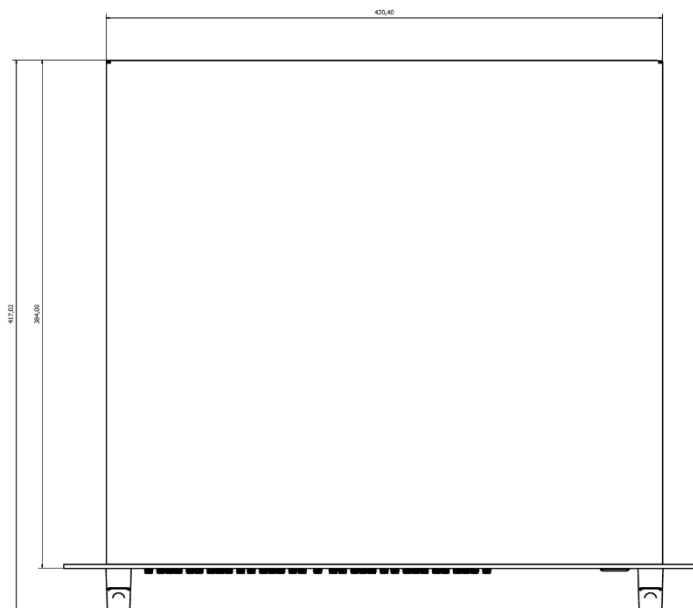
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The System and all modules are compliant to the applicable European directive and hold the CE mark.

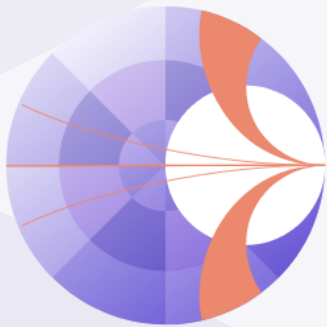
- ISO/CEI 17025 compliant calibration for any DC source or measurement module, calibration certificate provided.
- Serial number-based life cycle management
- All products are 100% tested (test reports provided)
- AMCAD only uses RoHS compliant components and does not use substances banned by the COSHH regulation.
- AMCAD complies with the relevant national regulations related to the safety and health of its employees against hazardous substances.
- The protection degree of the PIV system is IP20 according to CEI 60529.

# Dimensions (mm)

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# CONTACT US



# AMCAD

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