

eubus MCU – Matrix Coupling Unit

The eubus MCU has up to 16 precision attenuators and up to 16 inputs and outputs in a non-blocking matrix configuration.

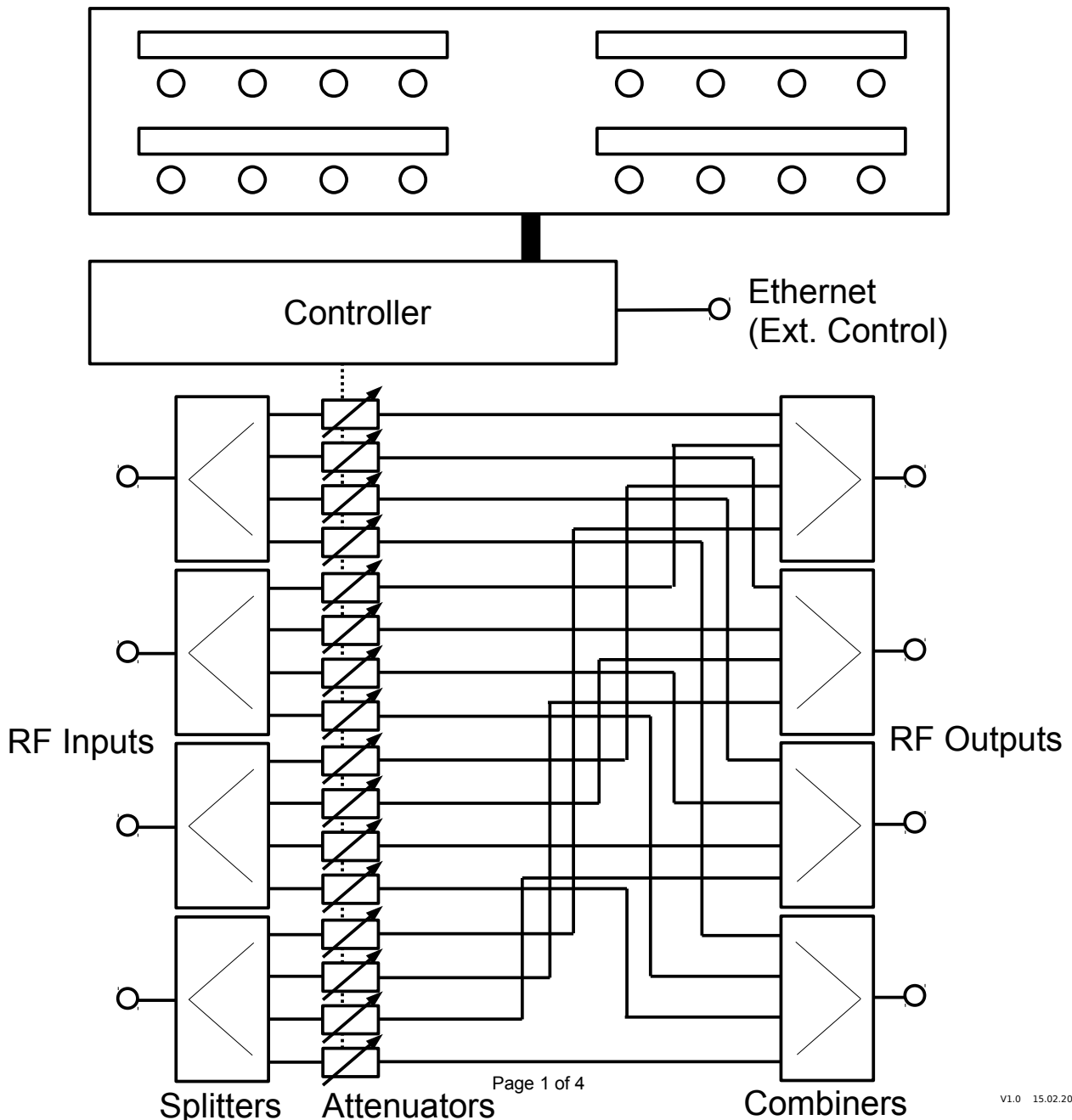
The system can be linked up and controlled via Ethernet and thus easily integrated in a network.

A MCU can be controlled remotely from a standard terminal program, a web browser or the eubus Controller Software. Our open interface protocol can be used to implement the MCU in existing systems.

However, the MCU can also be operated manually whenever necessary.

The frequency range is 0.5-3.0GHz or 0.7-6.0GHz

Displays and Manual Control



Features:

- Precision electronically switchable non-blocking matrix system for RF applications
- Frequency range: 0.5 – 3.0GHz with 0.5dB attenuation increments or 0.7 – 6.0 GHz with 1dB increments
- Maximum attenuation: 0.5 – 3.0GHz: 95.5dB, 0.7 – 6.0 GHz: 63dB plus Splitter – Combiner loss
- Standard version of 4 to 16 precision attenuators with up to 16 inputs and outputs
- Attenuation and offset can be set by multifunctional knobs or remotely by Ethernet
- Firmware update function implemented (over Ethernet)
- Comes with flexible steering software
- Attenuation values can be stored
- Suitable for any lab or field application
- Very flexible and adaptable
- Compact and stable 19" housing

The MCU4 can also be operated manually whenever necessary.

The included NAM Controller Software can be used to create professional long term tests that run automatically for a specific period for the purpose of load simulations etc.

Technical Data:

Type	MCU4
Frequency Range	0.5 – 3.0GHz or 0.7 – 6.0GHz
Attenuation	up to 95.5dB in 0.5dB increments (3GHz) up to 63dB in 1.0dB increments (6GHz) plus Combiner / Splitter loss
Insertion Loss	< 6dB (1GHz), <7.5dB (6GHz) plus Combiner / Splitter loss
Impedance	50 Ohm
RF Connectors	N(f), SMA(f) or customized Front or Backside
Input Power	max. 100mW average
Frequency Bands	GSM (900, 1900 MHz), UMTS, WLAN, WiMAX, Bluetooth, UMTS LTE
Ambient Temperature	0°C ... +50°C
Power Supply	100V – 240V, 47Hz - 63Hz
Housing	19" aluminum with 2U to 6U, depending on required channels
Delivery Package	MCU4 system, NAM controller software and power cable
Warranty	12 months

For phase sensitive applications, the MCU units can also be supplied with electrically switchable phase shifter modules. They provide 2° phase steps up to 254° @ 1GHz.

Customer specific versions are available on request

Example:

MCU-2x2 MiMo-Tester Configuration with Phase Shifters:

