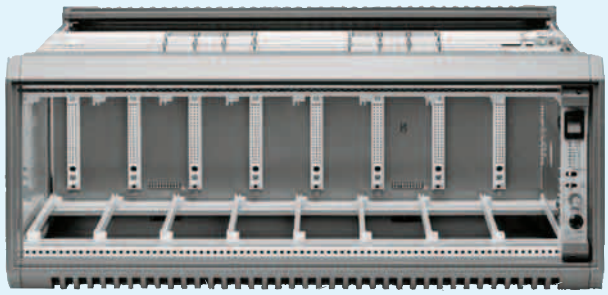
EM 1046 MF

RF Wireless Systems | 5000 Series Receiver Systems

Cat. No. 003220

General Description

The EM 1046 MF is a large mainframe for housing up to 8 receiver modules. The mainframe features two integral active 1-to-8 antenna splitters. The back panel houses the power supply module, RF input module and AF output module. The Mikroport computer display can be connected via an interface module. Additional antenna splitter modules are available for multiple mainframe systems. 19″ rack mount “ears” supplied.



Technical Data

Monitor output	1/4″ (6.3 mm) jack socket
Gain	+20 dB adjustable, +20 dB switchable
Output level	max. 18 dBm / 600 Ω, short circuit-proof, load ≥ 50 Ω
Housing	19″, 4 U
Dimensions	appx. 490 x 190 x 450 mm (19.29″ x 7.48″ x 17.72″)
Weight (empty)	appx. 9 kg (19.87 lbs)

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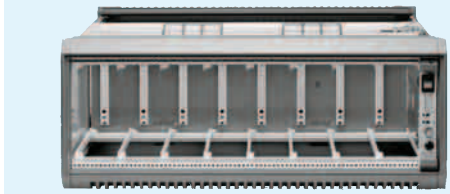
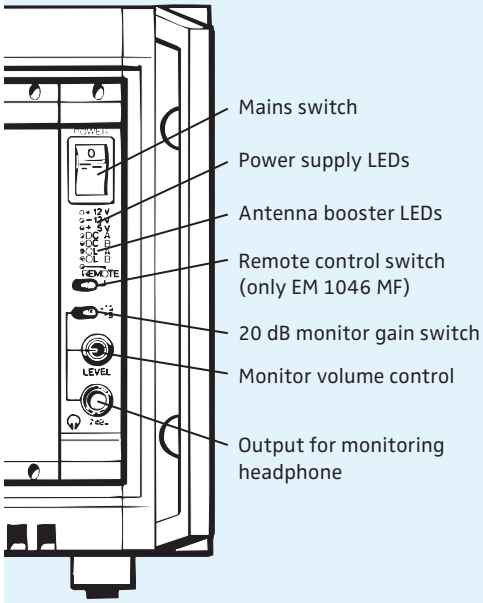
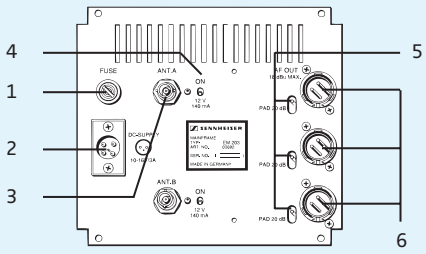




EM 1046 MF and EM 203 MF front panel controls



1 Fuse
2 XLR-4M socket for plug-in mains unit
3 Antenna inputs A and B, BNC socket
4 Switch and LED for antenna booster powering
5 20 dB attenuation of the AF output
6 AF output, XLR-3M

EM 203 MF back panel

The EM 1046 MF mainframe is the heart of the modular Mikroport system. At the front of the mainframe, a maximum of 8 diversity receiver modules can be inserted. At the rear, the RF input module, the AF output module and the power supply module are fitted. Special rear panel components are available for the simple connection and monitoring of a number of mainframes. In addition to the module frame, the mainframe includes a mains socket (rear), mains switch, monitor module and an active 1-to-8 antenna splitter. The operating controls at the front are identical for the EM 1046 MF and EM 203 MF and are explained below.

The EM 203 MF is the small mainframe for the 1046 system. Up to three diversity receiver modules can be accommodated. In the EM 203 MF, the rear is already completely equipped. An RF input module contains BNC sockets for the two diversity antenna and two passive 1-to-3 antenna splitters for supplying the receiver modules. The EM 203 MF mainframe is not operated with an active RF input module. To achieve the same gain and frequency selectivity as with the large mainframe, an active antenna or an antenna booster should be used. The antenna amplifier must operate selectively within the switching bandwidth of the receiver modules.

The AF outputs are balanced and floating and are present at XLR-3 sockets. The power supply is handled by the EM 20-NT plug-in mains unit, which must be ordered separately. Front operating controls: The operating controls at the front of the two mainframes are identical. Below the on/off switch, an LED display is located. The first three lights indicate the supply voltages from the power supply unit. Below these, the feed voltage for the antenna boosters is indicated. If the current consumption at the antenna sockets is above 150 mA (short circuit!), a current limiter is activated. The overload LEDs indicate that the limiters are operating.

The remote switch (only EM 1046 MF) is for controlling the settings via the Mikroport computer display. It is no longer possible to alter the parameters of the receiver modules locally. A selected channel can be monitored via the headphone output. The monitoring level can be boosted by means of the 20 dB gain switch so that even very low volumes can be monitored.