



## EM 1046

### General Description

The EM 1046 receiver module is at the heart of any 5000 series receiver system. All functions can be quickly checked via an alphanumeric multi-function display panel, LED bargraphs and individual LEDs. Due to the menu-assisted operation, parameters can quickly and easily be modified.

### Features

- Modular multi-channel receiver system for demanding musical and broadcast applications
- Large mainframe houses up to 8 true diversity receiver modules
- Small mainframe houses up to 3 true diversity receiver modules
- Several mainframes can be daisy-chained
- Indication of transmitter battery status (only with Sennheiser transmitters transmitting battery status information)
- "HiDyn plus" noise reduction system
- Mikroport computer display for remote controlling large systems

### Technical Data

Frequency setting	in 5 kHz Steps, max. 32 Freq
RF frequency range	450.....960 MHz
Switching bandwidth	36 MHz
Nominal deviation	+/- 40 kHz
Peak deviation	+/- 56 kHz
Limiter	< = 1 $\mu$ V
RF sensitivity	< = 1,5 $\mu$ V / 52 dB(A) S/N
Squelch threshold	0-100 $\mu$ V
Intermodulation	> = 76 dB
Signal-to-noise ratio	> = 117 dB(A) (> = 105 dB CCIR)
Compander	HiDyn plus
Frequency response (microphone)	20.....20000 Hz
THD, total harmonic distortion	< = 1 % (typ. 0,5 %)
Min. channel spacing	300 kHz
Adjacent channel rejection	> = 66 dB
Intermodulation attenuation	> = 100 dB
Image rejection	> = 100 dB

### Recommended Accessories

Description	Product	Article No.
Receiver module	EM 1046 RX-L	03246
Receiver module, frequency range 450 - 790 MHz		
Receiver module	EM 1046 RX-H	03247
Receiver module, frequency range 760 - 960 MHz		
Output modul	EM 1046 AO-X	03249
The EM 1046 AO-X output module is the interface to the subsequent audio equipment. In systems with several mainframes, the channels of any mainframe can be monitored individually via the monitor bus.		
Balancing card	EM 1046 AO-Z	03597
By using the EM 1046 AO-Z balancing card, the 25-pin sub-D AF output of the AO-X output module becomes a fully functional, transformer balanced second output.		
Antenna splitter	EM 1046 ASP 212	04341
The three EM 1046 ASP antenna splitter modules serve to supply several mainframes with the signals of only two antenna. With an EM 1046 ASP 212, a 16-channel system can be operated with only one pair of antenna.		
Blanking plate	EM 1046 CC-10	03516
The EM 1046 CC 10 closes off unused spaces at the front of the EM 1046 MF and EM 203 MF mainframes.		

Blanking plate	EM 1046 CC-12	03517
The EM 1046 CC 12 is used for closing off spaces at the rear of the EM 1046 MF.		
Chassis interface	EM 1046 CI	03469
The chassis interface is used for connecting several mainframes to the Mikroport computer display.		
Display interface	EM 1046 DI	03470
The EM 1046 DI display interface is required for the connection of display computers to the system. The display interface is supplied complete with the Mikroport Computer Display software for IBM-compatible computers.		
Fan assembly	EM 1046 FA	03875
The EM 1046 FA fan assembly can be installed in the base of the EM 1046 MF mainframe when the system is to be mounted in a 19" rack.		
Line interface	EM 1046 LI	03248
The EM 1046 LI line interface is used for connecting the data bus of the last EM 1046 MF. Via a subsequent display interface, up to four display computers can be connected to the EM 1046 LI.		
Mainframe	EM 1046 MF	09352
The EM 1046 MF is a large mainframe for housing up to 8 receiver modules.		
Mainframe	EM 203 MF	03692
The EM 203 MF mainframe is used for smaller 5000 series receiver systems.		
Power supply	EM 20-NT	03699
Power supply for the EM 203 MF		
Power supply	EM 1046 SA	03250
The EM 1046 SA mains power supply module can be used with any voltage between 90–230 V AC. Complies with the limiting values stipulated in VDE 0871, curve b.		
RF input module	EM 1046 RI	03244
The EM 1046 RI RF input module selects and amplifies the antenna signals. Two N-type sockets ensure reliable connection of the antennæ.		
Antenna	GZA 1036 TV	02243
Ground plane receiving antenna.		
Antenna	A 1031-U	04645
Passive omni-directional antenna.		
Antenna	A 2003-UHF	03658
Passive directional antenna.		
Antenna	A 12 AD UHF	04156
Active directional antenna.		
Booster	AB 1036-UHF	03598
Antenna Booster, 8 - 36 MHz bandwidth, 10 dB gain		

## Variants

Product	Article No.
EM 1046 MF-DT-EU Mainframe, German variant, EU power supply	09352
EM 1046 MF-ENG-EU Mainframe, German variant, EU power supply	09353
EM 1046 MF-ENG-UK Mainframe, German variant, UK power supply	09359
EM 1046 MF-ENG-US	09356

Mainframe, German variant, US power supply

EM 1046 MF-FRANZ-EU

09354

Mainframe, French variant, EU power supply

EM 1046 MF-FRANZ-US

09357

Mainframe, French variant, US supply

EM 1046 RX-UHF-L

03246

HF receiver module 450 - 790 MHz

EM 1046 RX-UHF-H

03547

HF receiver module 760 - 960 MHz