

EM 1046 RI

RF Wireless Systems | 5000 Series Receiver Systems

EM 1046 RI-UHF Cat. No. 003244
EM 1046 RI-VHF Cat. No. 003245

General Description

The EM 1046 RI RF input module selects and amplifies the antenna signals. Two N-type sockets ensure reliable connection of the antennas.



Technical Data

Frequency range450–960 MHz (EM 1046 RI-UHF)
138–260 MHz (EM 1046 RI-VHF)
Bandwidth 24 MHz (UHF), 7 MHz (VHF)
RF inputs 2 x N-type sockets
Amplificationtyp. 14 dB
Dimensions 60 x 130 x 195 mm
(2.36" x 5.12" x 7.68")
Weight appx. 0.65 kg (1.43 lbs)

EM 1046 RI

RF Wireless Systems | 5000 Series Receiver Systems



EM 1046 RI RF input module

In systems with the large mainframe, the selective RF input module EM 1046 RI processes the incoming antenna signals. In multi-mainframe systems, the antenna splitter modules described below are connected upstream. Two different hardware versions of the EM 1046 RI are available – one for the UHF band and one for the VHF band. Within the bands, the module is set at the factory to a bandwidth of 24 MHz for the UHF range (7 MHz in the VHF band).

The signals within the band are amplified by a typical 14 dB and distributed to the receiver modules via the bus system. The high selectivity and large-signal strength of the RF input module is matched for use in multi-channel systems. The two diversity antenna are connected via N sockets. A supply voltage can be added for antenna boosters or active antenna.

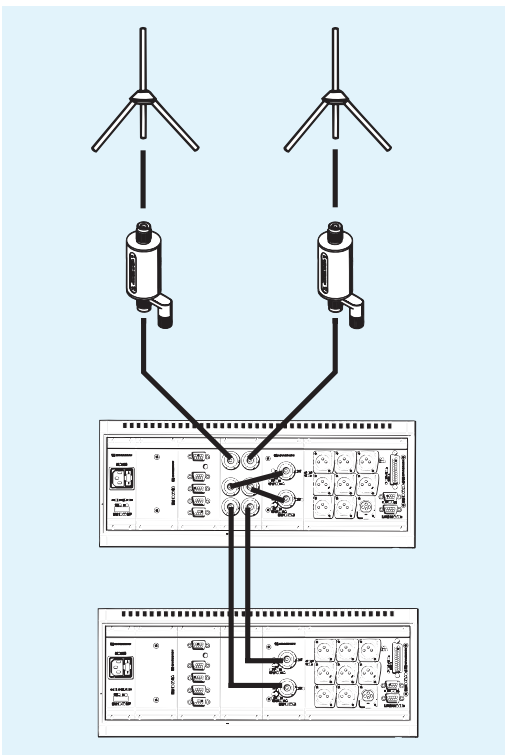


EM 1046 ASP antenna splitter module

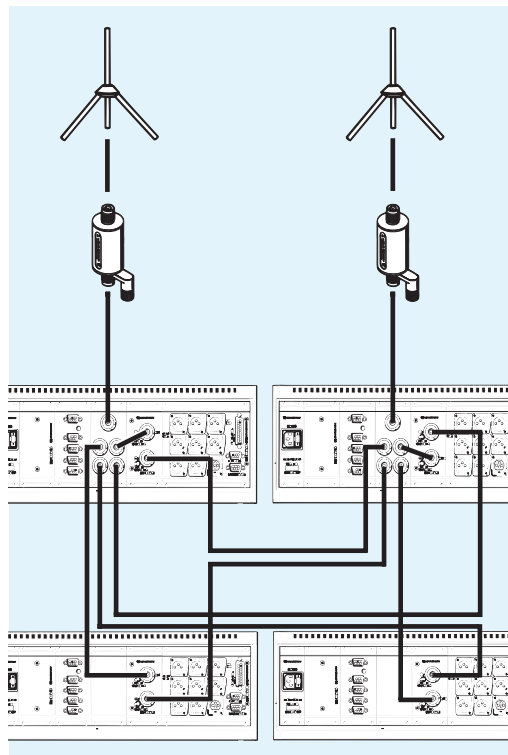
The EM 1046 ASP antenna splitter modules are used for distributing the antenna signals to a number of mainframes. Three modules are available:

- EM 1046 ASP 212 (two independent 1-to-2 splitters for operating two mainframes)
- EM 1046 ASP 113 (one 1-to-3 splitter, two modules make it possible to operate three mainframes)
- EM 1046 ASP 114 (one 1-to-4 splitter, two modules make it possible to operate four mainframes)

The splitters are connected ahead of the RF input modules. The attenuation of the passive splitters must be compensated for by an antenna booster or by using an active antenna. Please take care to have antenna, antenna boosters, RF input modules and receiver modules operating within the same bandwidth.



Use of the EM 1046 ASP 212 in a 16-channel system



Use of two EM 1046 ASP 114 in a 32-channel system