

## Air Interface Adapter AIAD-2/2-LAN

MTS-No.: R60.90.0390

### Application

With the MTS AIAD you can emulate air interfaces for all imaginable scenarios. To avoid the influence from the live-net, the signals can be connected with cables directly from the different signal sources, as for example GSM or UMTS base stations or signal generators etc. over the MTS AIAD to mobile devices.

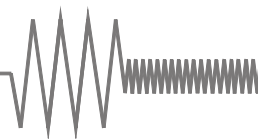
### Description

The Air Interface Adapter series AIAD is our most flexible solution for an air interface emulation. With the AIAD it is possible to emulate the in- and outputs according to the demands of the customer. The design allows program controlled attenuation of each input signal to each output signal at the same time. The function is carried out by power dividers on the input lines which lead through programmable attenuators to output combiners.



### Characteristics

- ▶ 2 inputs coupled to 2 outputs through 93 dB attenuators
- ▶ Frequency range from 800 MHz to 2400 MHz
- ▶ Attenuation range from 0 dB to 93 dB in 1 dB steps
- ▶ Switching time up to 50  $\mu$ s
- ▶ Small and low-cost design
- ▶ Remote control by LAN (other interfaces on demand)
- ▶ High quality materials and components for extended durability
- ▶ Air Interface Adapters can be designed according to customers individual requirements



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### Configuration:

2 inputs coupled to 2 outputs through 93 dB attenuators

### Technical data:

#### 1 RF-specifications:

1.1 Impedance	50 Ω
1.2 Input power	+26 dBm max.
1.3 Frequency range	800 MHz – 2400 MHz
1.4 RF-connections	N female
1.5 Switching time	50 μs max.
1.6 VSWR In	2 : 1 max.
1.7 VSWR Out	2 : 1 max.
1.8 Isolation	On request
1.9 Insertion loss Node/B - MS	17 dB max. (at 0 dB attenuation)
1.10 Attenuation	0 dB – 93 dB in 1 dB steps
1.11 Gradation	1 dB / 2 dB / 4 dB / 8 dB / 16 dB / 30 dB / 32 dB
1.12 Setting accuracy	1 dB ±0,4 dB 2 dB ±0,8 dB 3 dB - 9 dB ±1,0 dB 10 dB - 29 dB ±1,5 dB 30 dB - 79 dB ±3,0 dB 80 dB - 89 dB -3,0 dB / +6,0 dB 90 dB - 93 dB ±6,0 dB

#### 2 Connections:

2.1 Front side	RF-connections
2.2 Rear side	Power connector Power LED Control interfaces

#### 3 General specifications:

3.1 Power supply	12V DC
3.2 Internal voltage	5 V DC

3.3 Control displays	Control LED power at the rear side
3.4 Control interfaces	LAN RS-232 (only for configuration of the LAN-interface)
3.5 Power consumption primarily	0,5 A / 12 V DC
3.6 Voltage supply	Standard rubber connector
3.7 Operating temperature	0 °C – +50 °C
3.8 Reference temperature for specifications	+25 °C
3.9 Dimensions (without handles and connections)	200 mm x 138 mm x 105 mm (L x W x H)
3.10 Colour	Front side colourless anodized Rear side colourless anodized
3.11 Weight	2,2 kg

#### 4 Delivered parts:

AIAD-2/2-LAN  
Plug-in power supply 12 V  
Operating manual (on CD)

#### 5 Comments:

Warranty	12 months
RoHS-compliant	Yes

#### 6 Recommended accessories:

Shielding box of the series MSB-02xx  
RF-cables  
Control software

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**Views:**

