

Air Interface Adapter AIAD-4/1-1/8 TTL

MTS-No.: R60.90.0410

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.

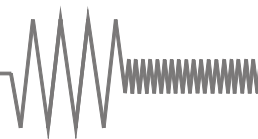
Description

4 inputs are leaded through 4 programmable attenuators and a 4 to 1 combiner to a common signal path. Thereafter the signal is divided (1 to 2) to a test output and to another path, which leads to a 1 to 8 divider. Each output of this 1 to 8 divider can be attenuated by one programmable attenuator and leads to a separate output.



Characteristics

- ▶ Consisting of 4 inputs and 8 outputs, 1 test output; realized with a 1 to 4 divider, a 1 to 2 divider, a 1 to 8 divider and 12 pcs. attenuators (93 dB)
- ▶ Frequency range from 500 MHz to 6000 MHz
- ▶ Attenuation range from 0 dB to 93 dB in 1 dB steps
- ▶ Switching time up to 50 μ s
- ▶ Remote control by LAN (other interfaces on demand)
- ▶ High quality materials and components for extended durability
- ▶ Air Interface Adapters can be designed according to customer's individual requirements



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Configuration:

4 inputs are coupled to 1 output through 93 dB attenuators, thereafter the signal is leaded with a 1 to 2 divider to one test output and to a 1 to 8 divider with 93 dB attenuators on each output.

Technical data:

1 RF-specifications:

1.1 Impedance	50 Ω
1.2 Input power	+24 dBm max.
1.3 Frequency range	500 MHz – 6000 MHz
1.4 RF-connections	N female
1.5 Switching time	50 μs max.
1.6 VSWR In	2,7 : 1 max.
1.7 VSWR Out	2,7 : 1 max.
1.8 Insertion loss	46 dB max. from X11 to X14, after X101 to X108 (at 0 dB attenuation)
	24 dB max. from X11 to X14 after X10 (at 0 dB attenuation)
1.9 Attenuation	0 dB – 93 dB in 1 dB steps
1.10 Gradation	1 dB / 2 dB / 4 dB / 8 dB / 16 dB / 30 dB / 32 dB
1.11 Setting accuracy	1 dB ±0,4 dB
500 – 3000 MHz	2 dB ±0,8 dB
	3 dB - 9 dB ±1,0 dB
	10 dB - 29 dB ±1,5 dB
	30 dB - 69 dB ±3,0 dB
	70 dB - 79 dB ±3,0 dB
	80 dB - 89 dB -3,0 dB / +6,0 dB
	90 dB - 93 dB ±6,0 dB
2900 – 6000 MHz	1 dB ±0,4 dB
	2 dB ±0,8 dB
	3 dB - 9 dB -1,0 dB / +1,5 dB
	10 dB - 29 dB -1,5 dB / +2,0 dB
	30 dB - 69 dB -3,0 dB / +3,5 dB
	70 dB - 79 dB -3,0 dB / +5,0 dB
	80 dB - 89 dB 5,0 dB / +8,5 dB
	90 dB - 93 dB -10,0 dB / +20,0 dB

2 Connections:

2.1 Front side	Power supply switch with integrated control lamp RF-connections
2.2 Rear side	Power supply Control card Appliance plug with the integrated fuses F1 and F2 Ground connector Control interfaces

3 General specifications:

3.1 Power supply	100 V – 240 V 50 Hz / 60 Hz
3.2 Internal voltage	5 V DC
3.3 Control displays	Control lamp in power switch Control LED for 5 V DC at the power supply unit
3.4 Control interfaces	LAN RS-232 (only for configuration of the LAN interface)
3.5 Power consumption primarily	50 mA @ 230 V
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	19"-unit x 9 HU x 370 mm (dimensions without handles and connections)
3.10 Colour	Front side: colourless anodized Rear side: colourless anodized
3.11 Weight	12 kg

4 Delivered parts:

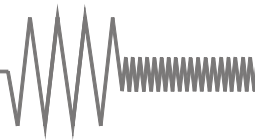
AIAD-4/1-1/8 TTL
Power cable
Operating manual (on CD)

5 Comments:

Warranty 12 months
RoHS-compliant Yes

6 Recommended accessories:

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



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Views:

