

Standard Coupling Unit SCF-0300 SCF-0301-LAN

MTS-No.: R60.90.0300-03
R60.90.0301-02

Application

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

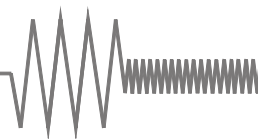
Description

The MTS Standard Coupling Unit SCF-0300 /- SCF-0301-LAN emulates an air interface between 6 base stations and 3 mobile devices.



Characteristics

- ▶ 3 Paths with each 2 variable attenuators connected with 2/1 combiner to 1 output
- ▶ Easy manually operation by LCD display with keyboard and up-down buttons
- ▶ Frequency range from 400 MHz to 2900 MHz
- ▶ Attenuation range from 0 dB to 93 dB in 1 dB steps
- ▶ LED's at the front panel show the minimum suggested attenuation
- ▶ With integrated combiners (1x 4/1 and 2x 2/1) on the front panel to connect the 3x 2/1 to a 6/1
- ▶ Remote control by RS-232 and LAN at model SCF-0301-LAN, (other interfaces on demand)
- ▶ Coupling Units can be designed according to customers individual requirements



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Configuration:

3 Paths with each 2 variable attenuators connected with 2/1 combiner to 1 output. Additional 1 combiner 4/1 and 2 combiner 2/1

Technical data:

1 RF-specifications:

1.1 Impedance	50 Ω
1.2 Input power	+24 dBm max. (BTS path) +26 dBm max.
1.3 Frequency range	400 MHz – 2900 MHz
1.4 RF-connections	N female
1.5 VSWR In	2,1 : 1 max. BTS path 1,6 : 1 max. Cb path
1.6 VSWR Out	1,6 : 1 max. Cb path 500 MHz – 2900 MHz 2,0 : 1 max. BTS path 400 MHz – 2900 MHz 2,5 : 1 max. BTS path
1.7 Insertion loss	12,5 dB typ. 16 dB max. (path with adjustable attenuator, at 0 dB attenuation) 4 dB max. Cb IN to Cb OUT 2-way splitter 7,5 dB max. Cb IN to Cb OUT 4-way splitter
1.8 Attenuation	0 dB – 93 dB in 1 dB steps
1.9 Gradation	1 dB / 2 dB / 4 dB / 8 dB / 16 dB / 30 dB / 32 dB
1.10 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	Power supply switch with integrated control lamp LCD display Keyboard UP/Down key LEDs for power level indication RF-connections
2.2 Rear side	Power supply Control card Appliance plug with the integrated fuses F1 and F2 Ground connector Control interfaces RF-connections

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	RS-232 LAN (only at SCF-0301-LAN) (10/100 Mbits/s)
3.5 Power consumption primarily	0,6 A @ 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	Desktop unit 84 TE x 6 HU x 310 mm (dimensions without handles and connections) Useable as 19"-rack
3.10 Colour	Front side: colourless anodized Rear side: colourless anodized
3.11 Weight	11 kg

4 Delivered parts:

SCF-0300 or SCF-0301-LAN
Power cable
Operating manual (on CD)

5 Comments:

Warranty 12 months
RoHS-compliant Yes

6 Recommended accessories:

Shielding box
RF-cables

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View: Model SCF-0301-LAN

