Standard Coupling Unit SCF-0150(-57600) SCF-0151(-57600)

MTS-No.: R60.90.0150-07(F) R60.90.0151-03(F)

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 directly 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-0150/151 emulates an air interface between 4 base stations and 2 mobile devices. Each input (base station) can be patched through 4 different paths, which contain different fixed attenuators.

Characteristics

- 2 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 800 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
- Including 3 hybrid couplers to connect the 2x 2/1 to an 4/1
- Remote control by RS-232 and IEEE488; LAN at model SCF-0151-LAN, (other interfaces on demand)
- Coupling Units can be designed according to customers individual requirements

MTS Systemtechnik GmbH
Gewerbepark Ost 8
D-86690 Mertingen

Phone +49 (0)9078 / 91294 – 0
Fax +49 (0)9078 / 91294 – 70

www.mts-systemtechnik.de
info@mts-systemtechnik.de
Certified with DIN EN ISO 9001:2000

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Configuration:

2 Paths with each 2 variable attenuators connected with 2/1 combiner to 1 output. Additional 3 hybrid couplers.

Technical data:

1 RF-specifications:

1.1	Impedance	50 Ω
1.2	Input power	+30 dBm max. at the BTS-inputs at the rear side and the hybrids at the front side, + 24 dBm max. at the BTS-inputs at the front side + 26 dBm at the BTS-outputs at the front side
1.3	Frequency range	800 MHz – 2900 MHz
1.4	RF-connections	N female
1.5	VSWR In	2 : 1 max.
1.6	VSWR Out	2 : 1 max.
1.7	Insertion loss	12,5 dB typ., 16 dB max. (at the pathes within adjustable attenuators and at 0 dB adjusted attenuation)
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 / +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-keys Power level indicators RF-connections
2.2	Rear side	Power supply Control cards Appliance plug with the integrated fuses F1 and F2 Ground connector RF-connections Control interfaces

3 General specifications:

3.1	Power supply	100 V – 240 V 50 Hz / 60 Hz
3.2	Control interfaces	Manual operating IEEE488 RS-232, standard 9600 baud, 57600 baud at type designations with attachment -57600 optionally LAN at SCF-0151 resp. SCF-0151-57600
3.3	Power consumption primarily	0,06 A typ. @ 230 V 0,1 A max. @ 230 V
3.4	Voltage supply	Standard rubber connector
3.5	Operating temperature	0 °C – +50 °C
3.6	Reference temperature for specifications	+25 °C
3.7	Dimensions	Desktop unit 84 TE x 6 HU x 310 mm (dimensions without handles and connections)
3.8	Colour	Front and rear side colourless anodized
3.9	Weight	12,5 kg

4 Delivered parts:

SCF-0150(-57600) resp.
SCF-0151(-57600)
Power cable (UK-jack on request)
2 x 50 Ω termination (N)
Operating manual (on CD)

5 Comments:

Warranty	12 months
RoHS-compliant	Yes

6 Recommended accessories:

Shielding box
RF-cables
RF-terminations

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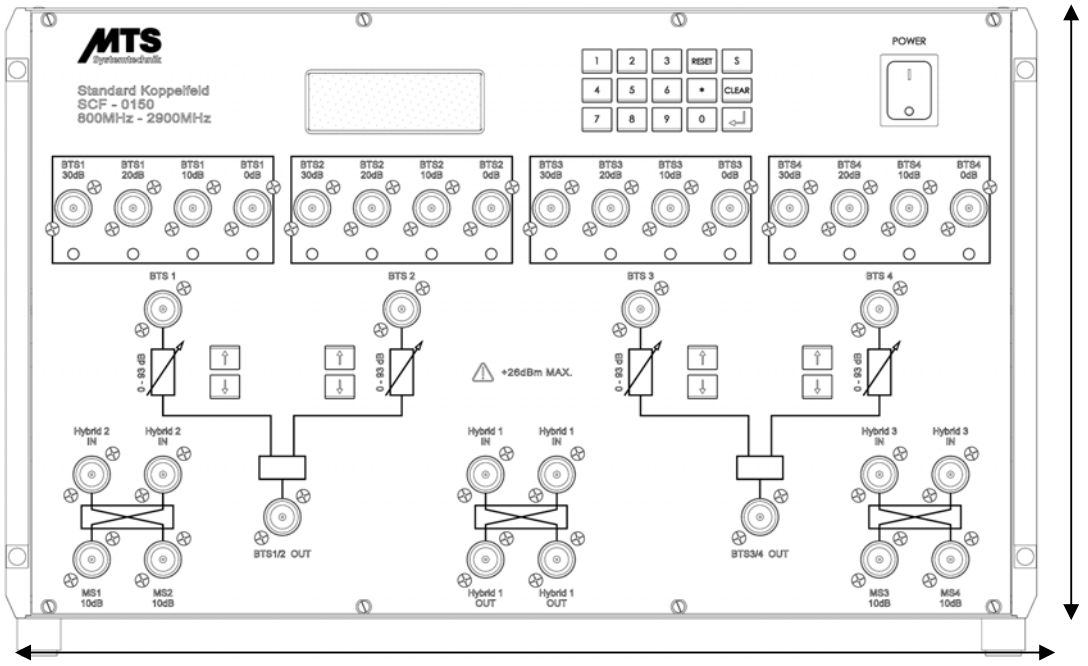
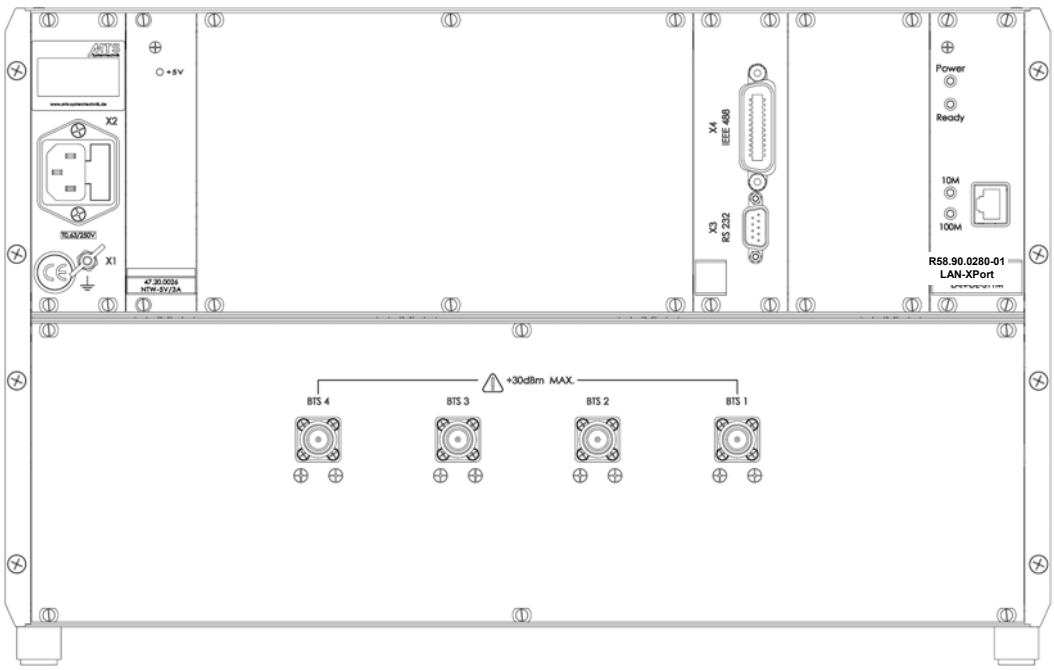
Views:





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