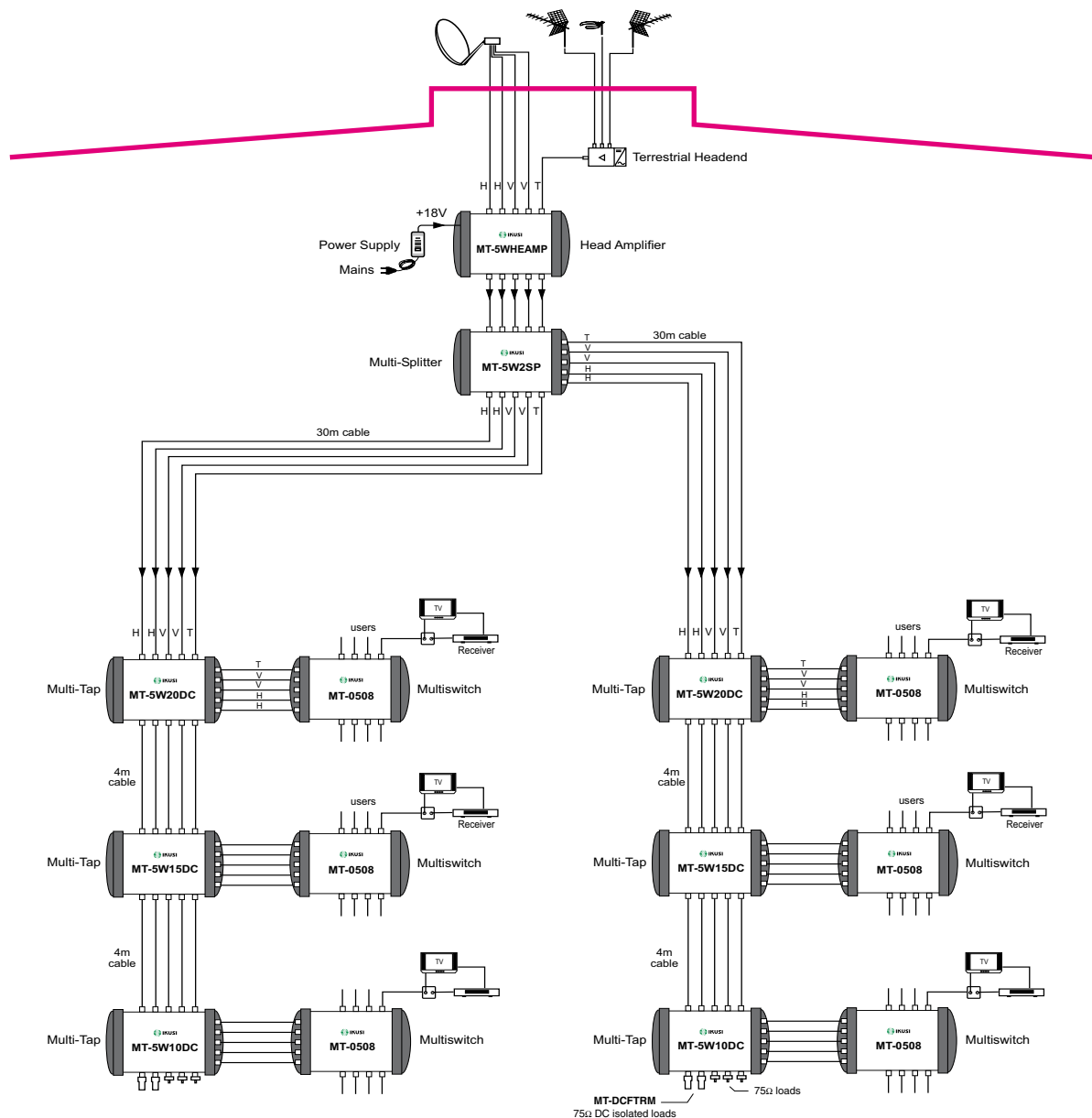


MT-5W. Multiswitch Equipment for 5-Cable Systems (Pay TV Approved)

The MT-5W equipment has been designed for distribution of 4x Sat-IF Polarizations + 1 Terrestrial Broadband Signal along the trunk of a building in medium- and big-size collective installations. Operation is based on one-way multi-taps which feed stand-alone multiswitches. Three tap levels allow to maintain signal balance throughout the distribution backbone.

The equipment includes:

- 1 head-amplifier,
- 3 multi-taps offering 20, 15 or 10 dB nominal tap-losses,
- 2 multi-splitters — 2- and 4-way,
- 3 stand-alone multiswitches with 8, 12 or 16 receiver outputs,
- 1 power supply unit (+18V).



MT-5W. Head-Amplifier (Pay TV Approved)

Amplification of 4 SAT-IF Polarizations and 1 Terrestrial Signal for compensating distribution losses in 5-cable distribution systems.

Active SAT and TERR. Continuous attenuation and equalization adjustments.

Local powering (+18 VDC) using the PS1801DC power supply (see below). Supply voltage is connected directly to the SAT 1H & SAT 2H inputs and the switched on (led indicator) SAT 1H & SAT 2H outputs.

Sheet metal housing. Indoor mounting. Wall fixing. Earthing terminal.

MODEL			MT-5WHEAMP
REF.			52117
Pay TV Approved			F30208
Powering mode			Local (DC)
Line inputs			4 SAT (1V - 1H - 2V - 2H) + 1 TERR
Line outputs			4 SAT (1V - 1H - 2V - 2H) + 1 TERR
Frequency range	Sat	MHz	950 - 2150
	Terr	dB	47 - 862
Gain	Sat	dB	22 (±2)
	Terr	dB	18 (±1)
Variable attenuation	Sat	dB	0 - 18
	Terr	dB	0 - 20
Variable equalization	Sat	dB	0 - 8
	Terr	dB	0 - 15
Isolation	Sat-Sat	dB	≥ 45
	Sat-Terr	dB	≥ 35
Noise figure	Sat	dB	≤ 6
	Terr	dB	≤ 11
Input & output return loss		dB	≥ 10
SAT output level (-25dB IM, full ch. loading)		dBμV	104
TERR output level (-30dB IM, full ch. loading)		dBμV	94
Power requirements			+18DC / xmA
Feed through of +18V to 1H&2H inputs			260 mA
Feed through of +18V to 1H&2H outputs			2 Amps Switchable
Max total feed through			2 Amps Switchable
Input and output RF connectors			female F
DC connector type			DC socket



Power Supply Unit

MODEL	REF.	DESCRIPTION
PS1801DC	50608	18 VDC - 1Amp with F connection - Switch Mode Power Supply



Power injector

MODEL	REF.	DESCRIPTION
IFC-215	3241	1A/24V. Frequency range: 10-2150 MHz. Insertion loss: ≤1 dB. F type female connectors. Dimensions: 66x45x25 mm



MT-5W. Stand Alone Multiswitches (Pay TV Approved)

Stand Alone Multiswitches for 5-cable systems. Distribution of 4 Sat-IF Polarizations and 1 Terrestrial Signal to 8, 12 or 16 users of satellite receivers. Active SAT and TERR. Continuous gain adjustment.

SAT path supplied from users' receivers. No feed through of the voltage to the input ports. IF polarization switching by voltage/tone.

TERR path supplied from separate DC input or from phantom power on the SAT 1H & SAT 2H inputs (DC passing is connected between DC input and SAT 1H & SAT 2H inputs).

Sheet metal housing. Indoor mounting. Wall fixing. Earthing terminal.

MODEL			MT-0508		MT-0512		MT-0516	
REF.			52105		52106		52107	
Pay TV Approved			F30454		F30480		F30455	
Number of satellite inputs			4 (1V - 1H - 2V - 2H)					
Number of terrestrial inputs			1					
Number of outputs (users)			8		12		16	
SAT frequency band		MHz	950 - 2050					
TERR frequency band		MHz	5 - 862					
Gain	Sat	dB	13 (±1)		11 (±1)		12 (±2)	
	Terr		15 (±1)		9 (±1)		10 (±1)	
Variable attenuation	Sat 1V&1H	dB	0 - 12					
	Sat 2V&2H		0 - 12					
	Terr		0 - 15					
SAT output level (-25dB IM, notch test)		dBµV	98		90		99	
TERR output level (-30dB IM, full channel loading)		dBµV	≥ 30					
Output isolation		dB	≥ 25					
Terrestrial to Satellite isolation		dB	≥ 25					
Input&Output return loss		dB	≥ 10					
Switching by 13/18 V and 0/22 kHz			YES					
Max supply current from users' receivers		mA	200					
Power requirements for TERR path ¹			18V / 140mA					
Input and Output RF connectors			female F					
Terrestrial supply DC connector			DC socket					
Dimensions		mm	182x105x54		270x105x54		270x105x54	

¹ From separate DC input port or from phantom power on the SAT1H & SAT 2H inputs.



MT-0508



MT-0516

Accessories (Pay TV Approved)

MODEL	REF.	Pay TV Approved	DESCRIPTION
MT-DCFBLOCK	52114	F30421	DC Blocker. Male-Female F connector type.
MT-DCFTRM	52115	F30415	DC isolated Terminator. Male F connector type.



52114



52115

1-way multi-taps and 2- and 4r-way multi-splitters. Application in 5-cable systems.

In multi-taps, sloped response for satellite frequencies.

DC passing between SAT inputs and outputs.

Sheet metal housing. Indoor mounting. Wall fixing. Earthing terminal.

MT-5W. 1-way Multi-Taps (Pay TV Approved)

MODEL			MT-5W10DC	MT-5W15DC	MT-5W20DC
REF.			52110	52111	52112
Pay TV Approved			F30418	F30419	F30420
Trunk inputs/outputs			4 SAT + 1 TERR		
Tap outputs					
Frequency range	Sat	MHz	950 - 2150		
	Terr	MHz	5 - 862		
Tap loss	Sat	MHz	12 ... 8 (±0.5) 4 dB fixed slope	17 ... 14 (±0.5) 3 dB fixed slope	22 ... 19 (±1) 3 dB fixed slope
	Terr	dB	10	15	20
Trunk loss	Sat	dB	1.5	1.0	1.0
	Terr	dB			
Isolation	Sat	dB	≥ 35		
Rejection	Terr→Sat	dB	≥ 12	≥ 18	≥ 22
Directivity	Sat	dB	≥ 10		
	Terr	dB	≥ 20	≥ 20	≥ 25
Return loss	Sat	dB	≥ 10		
	Terr	dB	≥ 16	≥ 13	≥ 13
DC pass on Sat trunk paths			2 A max		
DC pass on H tap paths			0.5 A max - switchable		
Trunk ans Tap connector type			female F		
Dimensions			mm 182x123x54		



MT-5W10DC



MT-5W15DC



MT-5W20DC

MT-5W. 2-way 4-way Multi-Splitter (Pay TV Approved)

MODEL			MT-5W2SP	MT-5W4SP
REF.			52108	52109
Pay TV Approved			F30416	F30417
Inputs			4 SAT + 1 TERR	
Outputs			(2x) 4 SAT + 1 TERR	
Frequency range	Sat	MHz	950 - 2150	
	Terr	MHz	5 - 862	
Insertion loss	Sat	MHz	4.5	8.5
	Terr	dB	4	8
Isolation	Sat	dB	≥ 18	
	Terr	dB	≥ 22	
Rejection	Terr→Sat	dB	≥ 3	≥ 5
Return loss	Sat	dB	≥ 12	≥ 10
	Terr	dB	≥ 20	≥ 16
DC pass on Sat trunk paths			2 A - switchable on H outputs/1 way	2 A max
input and output connector type			female F	
Dimensions			mm 182x123x54	270x123x54



MT-5W2SP



MT-5W4SP