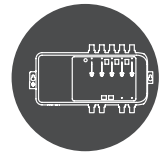


# MULTISWITCHES



electronics

## MFC Series

SAT-IF cascadable multiswitches.

4, 8, 12 & 16 SAT inputs + 1 Terrestrial input.

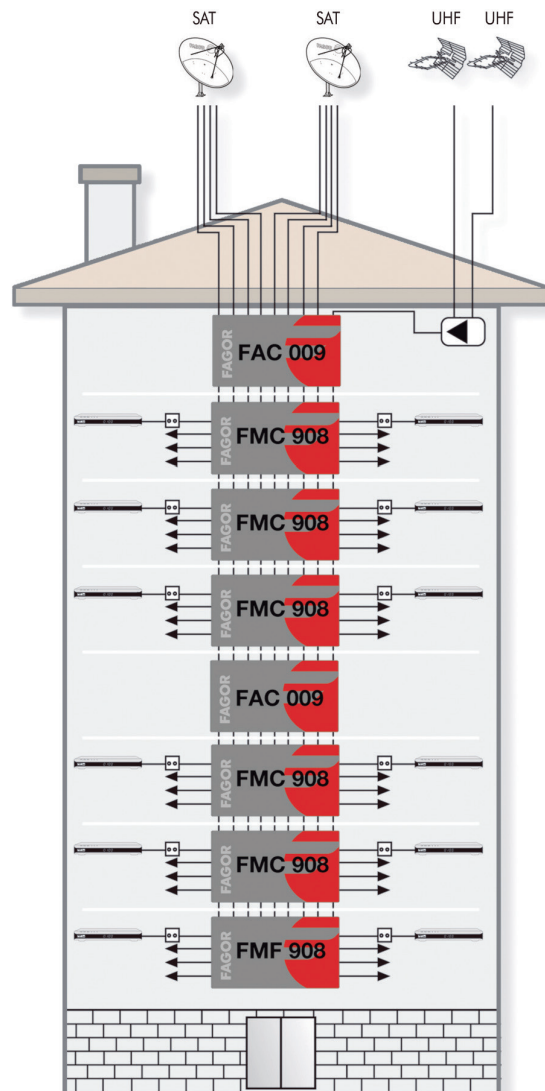
### APPLICATION

For the distribution of satellite TV signal up to 16 polarities. Each user receives both satellite and terrestrial signal by only one coaxial cable and any satellite polarisation can be selected from each user's receiver.


### FEATURES

- Low cascading loss at high subscriber extensions.
- Cascade distribution of 4, 8, 12 and 16 satellite polarizations.
- Input for terrestrial signal, compatible with terrestrial digital broadcast (DVB-T).
- Control by voltage/tone from the user's receiver. Satellite selection through DiSEqC 2.0.-2.1.
- The high selectivity of the input filters guarantees the maximum quality of the signal.
- Terminal multiswitches and amplifiers: power supply included.
- LNB Quattro & LNB Quad compatible.

8 POLARITIES/ 48 SUBSCRIBERS



### POWER SUPPLY WITH EUROPEAN PLUG

MODEL	SPS 1825	SPS 1825 
Reference	86430	86480
Output voltage	18 Vcc 2.5A	18 Vcc 2.5A
Input voltage	Vac 80-260	80-260

### PROGRAMMING

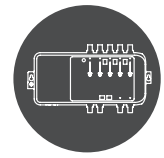
The UCM 100 programming unit allows to modify the output configuration:

- Give priority to one of the polarities to work with receivers without DiSEqC commands.
- Blocking the signal of one, several or all polarities.

MODEL	UCM 100
Reference	86599
Connector	F (female)

# MULTISWITCHES

## CASCADABLE MULTISWITCHES 5 INPUTS SYSTEM



electronics

# FMC Series

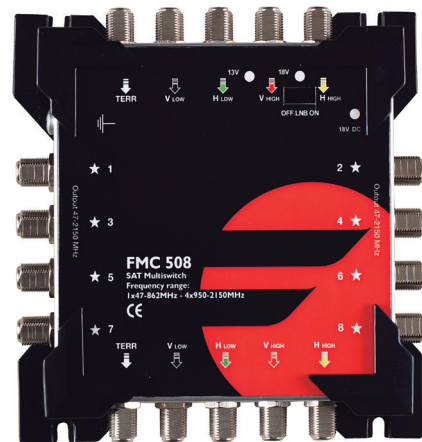
SAT-IF cascade multiswitches 4 SAT inputs + 1 Terrestrial input.

### APPLICATION

For the distribution of satellite TV signal up to 5 polarities. Each user receives both satellite and terrestrial signal by only one coaxial cable.

### FEATURES

- FMC series, cascade models, FMF series final models.
- Input for terrestrial signal, compatible with terrestrial digital broadcast (DVB-T).
- Control by voltage/tone from the user's receiver. Satellite selection through DiSEqC 2.0.-2.1.
- FMF models include power supply SPS 1825.



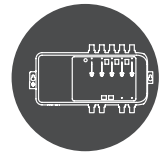
### MODELS WITH BS PLUG

	FMF 508 BS	FMF 512 BS	FMF 516 BS	FMF 524 BS	FMF 532 BS
Reference	86484	86485	86486	86487	86488

MODEL			FMC 508	FMC 512	FMC 516	FMC 524	FMC 532	FMF 508	FMF 512	FMF 516	FMF 524	FMF 532		
Reference			86432	86433	86434	86445	86446	86460	86461	86462	86463	86464		
Inputs			4 SAT + 1 TERR											
Subscriber outputs			8	12	16	24	32	8	12	16	24	32		
Frequency range	TERR		70÷862											
	SAT	dB	950÷2150											
Tap gain / loss	TERR	dB	-2 ± 2	-2 ± 2	-3 ± 2	-7 ± 2	-8 ± 2	2 ± 2	2 ± 2	-0 ± 2	-2 ± 2	-3 ± 2		
	SAT	dB	-2÷2 (±2)	-2÷2 (±2)	-2÷2 (±2)	-2÷2 (±2)	-2÷2 (±2)	-2÷2 (±2)	-2÷2 (±2)	-2÷2 (±2)	-2÷2 (±2)	-2÷2 (±2)		
Passage loss	TERR	dB	-4	-4	-4,5	-5	-6							
	SAT	dB	-1,5	-2	-2,5	-3	-4							
Isolation	SAT-SAT		>40											
	SAT-TERR	dB	>35											
	OUT-OUT		>35											
Max. Output level (SAT-35dB IM3)	SAT	dBµV	102											
Satellite and polarity selection			13 Vdc / 18 Vdc - 0 / 22 KHz DiSEqC 2.0-2.1											
Max. current consumption (without LNB)		mA	180			300		180			300			
Supply voltage		Vac	-							195-265 Vac / 18Vdc / 2.5 A				
Operating temperature range		°C	-10 to 40											
Packing dimensions		mm	220 x 245 x 50			233 x 315 x 50		233 x 350 x 50		220 x 245 x 50		233 x 315 x 50		233 x 350 x 50
Weight		Kg	0.55	0.6	0.75	1.15	1.3	0.6	0.65	0.8	1.2	1.35		

# MULTISWITCHES

## CASCADABLE MULTISWITCHES 9 INPUTS SYSTEM



electronics

# MFC Series

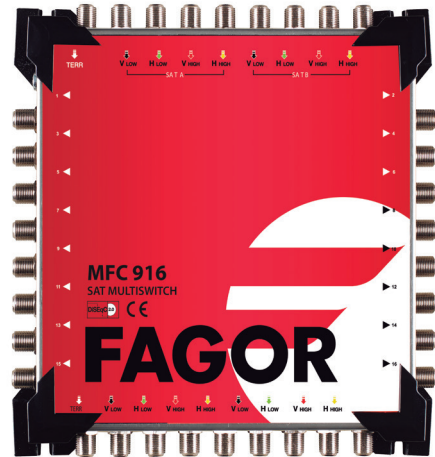
**SAT-IF cascade multiswitches 8 SAT inputs +  
1 Terrestrial input.**

### APPLICATION

For the distribution of satellite TV signal up to 9 polarities. Each user receives both satellite and terrestrial signals by only one coaxial cable.

### FEATURES

- MFC series, cascade models, MFF series final models.
- Input for terrestrial signal, compatible with terrestrial digital broadcast (DVB-T).
- Control by voltage/tone from the user's receiver. Satellite selection through DiSEqC 2.0.-2.1.
- MFF models include power supply SPS 1825.



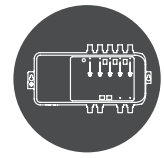
### MODELS WITH BS PLUG

	FMF 908	FMF 912	FMF 916	FMF 924	FMF 932
Reference	86489	86490	86491	86492	86493

MODEL			MFC 908	MFC 912	MFC 916	MFC 924	MFC 932	MFF 908	MFF 912	MFF 916	MFF 924	MFF 932
Reference			86723	86721	86719	86715	86713	86722	86720	86718	86714	86712
Inputs			8 SAT + 1 TERR									
Subscriber outputs			8	12	16	24	32	8	12	16	24	32
Frequency range	TERR	MHz	47 - 862									
	SAT		950 - 2150									
Tap gain / loss	TERR	dB	-20	-23	-24	-27	-28	-16	-19	-20	-23	-24
	SAT		-2..2 (±2)	-2..2 (±2)	-2..2 (±2)	-2..2 (±2)	-2..2 (±2)	-2..2 (±2)	-2..2 (±2)	-2..2 (±2)	-2..2 (±2)	-2..2 (±2)
Passage loss	TERR	dB	-3	-3	-3,5	-4	-5					
	SAT		-1,5	-2	-2,5	-3	-4					
Isolation	SAT-SAT	dB	>34									
	SAT-TERR		>36									
	OUT-OUT		>34									
Max. Output level (Ter.-60 dBIM3, SAT -35dB IM3)	TERR	dBμV	90									
	SAT		102									
Satellite and polarity selection			DiSEqC 2.0-2.1 / 13Vdc / 18Vdc-									
Max. current consumption (without LNB)		mA	180			300		180			300	
Operating temperature range		°C	-10 to 40									
Packing dimensions		mm	236 x 315 x 50			235 x 630 x 50		235 x 315 x 50			235 x 630 x 50	
Weight		Kg	0.62	0.65	0.77	1.12	1.37	0.52	0.65	0.77	1.12	1.37

# MULTISWITCHES

## CASCADABLE MULTISWITCHES 13 INPUTS SYSTEM



electronics

# MFC Series

SAT-IF cascade multiswitches 12 SAT inputs + 1 Terrestrial input.

### APPLICATION

For the distribution of satellite TV signal up to 12 polarities. Each user receives both satellite and terrestrial signals by only one coaxial cable.

### FEATURES

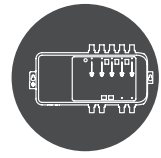
- MFC series, cascade models, MFF series final models.
- 12-polarity cascade distribution of 3 satellites.
- Input for terrestrial signal, compatible with terrestrial digital broadcast (DVB-T).
- Control by voltage/tone from the user's receiver. Satellite selection through DiSEqC 2.0.-2.1.
- MFF models include power supply SPS 1225.



MODEL	MFC 1308	MFC 1312	MFC 1316	MFC 1320	MFC 1324	MFC 1332	MFF 1308	MFF 1312	MFF 1316	MFF 1320	MFF 1324	MFF 1332
Reference	86735	86733	86731	86729	86727	86725	86734	86732	86730	86728	86726	86724
Inputs	12 SAT + 1 TERR											
Subscriber outputs	8	12	16	20	24	32	8	12	16	20	24	32
Frequency range	47÷862 950÷2150											
Tap gain / loss	TERR SAT	TERR SAT	TERR SAT	TERR SAT	TERR SAT	TERR SAT	TERR SAT	TERR SAT	TERR SAT	TERR SAT	TERR SAT	TERR SAT
Passage loss	TERR SAT	TERR SAT	TERR SAT	TERR SAT	TERR SAT	TERR SAT	TERR SAT	TERR SAT	TERR SAT	TERR SAT	TERR SAT	TERR SAT
Isolation	SAT-SAT	>34										
	SAT-TERR	>36										
	OUT-OUT	>34										
Max. Output level (SAT-35dB IM3)	SAT	90 102										
Satellite and polarity selection	13 Vdc / 18 Vdc - DiSEqC 2.0-2.1											
Max. current consumption (without LNB)	180			300			180			300		
Supply voltage	-						195-265 Vac / 12Vdc / 2500					
Operating temperature range	-10 to 40											
Packing dimensions	370 x 245 x 50			10 x 350 x 50			370 x 245 x 50			10 x 350 x 50		
Weight	0.8	1	1.1	1.30	1.5	1.7	1	1.2	1.3	1.5	1.7	1.9

# MULTISWITCHES

## CASCADABLE MULTISWITCHES 17 INPUTS SYSTEM



electronics

# FMC Series

SAT-IF cascade multiswitches 16 SAT inputs +  
1 Terrestrial input.

### APPLICATION

For the distribution of satellite TV signal up to 16 polarities.  
Each user receives both satellite and terrestrial signals by  
only one coaxial cable.

### FEATURES

- MFC series, cascade models, MFF series final models.
- 15-polarity cascade distribution of 3 satellites.
- Input for terrestrial signal, compatible with terrestrial digital broadcast (DVB-T).
- Control by voltage/tone from the user's receiver. Satellite selection through DiSEqC 2.0.-2.1.
- MFF models include power supply SPS 1825.



MODEL	MFC 1708	MFC 1712	MFC 1716	MFC 1720	MFC 1724	MFC 1732	MFF 1708	MFF 1712	MFF 1716	MFF 1720	MMF 1724	MMF 1732	
Reference	86747	86745	86743	86741	86739	86737	86746	86744	86742	86740	86738	86736	
Inputs	16 SAT + 1 TERR												
Subscriber outputs	8	12	16	20	24	32	8	12	16	20	24	32	
Frequency range	47÷862 950÷2150												
Tap gain / loss	TERR SAT	dB											
		-20	-23	-24	-26	-27	-28	-16	-19	-20	-22	-23	-24
		-2÷2 (±2)	-2÷2 (±2)	-2÷2 (±2)	-2÷2 (±2)	-2÷2 (±2)	-2÷2 (±2)	-2÷2 (±2)	-2÷2 (±2)	-2÷2 (±2)	-2÷2 (±2)	-2÷2 (±2)	-2÷2 (±2)
Passage loss	TERR SAT	dB											
		-3	-3	-3,5	-4	-4	-5	-					
		-1,5	-2	-2,5	-3	-3	-4						
Isolation	SAT-SAT SAT-TERR OUT-OUT	dB											
		>34						>36					
		>34											
Max. Output level (SAT-35dB IM3)	SAT	dBμV											
		90						102					
Satellite and polarity selection	13 Vdc / 18 Vdc DiSEqC 2.0-2.1												
Max. current consumption (without LNB)	mA	180			300			180			300		
Supply voltage	Vac	-						195-265 Vac / 12 Vdc / 2500					
Operating temperature range	°C	-10 to 40											
Weight	Kg	0.97	1.12	1.51	1.84	2.15	2.67	1.27	1.51	1.81	2.14	2.45	2.3

# MULTISWITCHES

## CASCADABLE MULTISWITCHES AMPLIFIER SERIES

# FAC Series

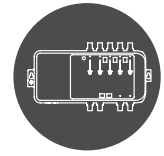
Amplifier up to 16 polarities + terrestrial input.

### APPLICATION

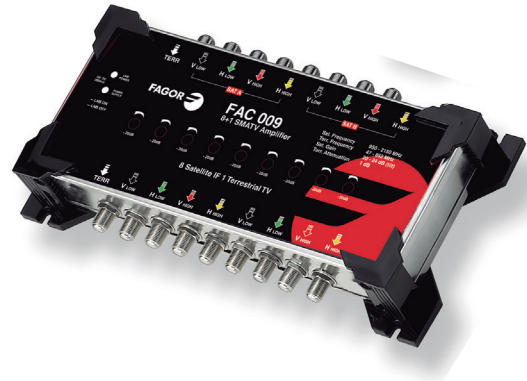
Suitable as head amplifiers or distribution amplifiers in cascade multiswitch installations.

### FEATURES

- 4, 8, 12 and 16 satellite polarities amplifier.
- High linearity with 4dB slope to compensate distribution losses.
- Passive terrestrial input.
- Includes SPS 1825 power supply.



electronics



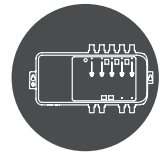
### MODELS WITH BS PLUG

	FAC 005	FAC 009	FAC 013	FAC 017
Reference	86481	86482	86449	86483

MODEL			FAC 005	FAC 009	FAC 013	FAC 017
Reference			86442	86443	86630	86444
Inputs			4 SAT + 1 TERR	8 SAT + 1 TERR	12 SAT + 1 TERR	16 SAT + 1 TERR
Frequency band	TERR	dB	70÷790			
	SAT		950÷2150			
Gain	TERR	dB	-1± 2			
	SAT		22 ± 1 (4DB tilt)			
Regulation gain	TERR	dB	20			
	SAT		20			
Isolation	SAT-SAT	dB	>33	>33	>33	>33
	SAT-TERR		>50	>50	>50	>50
Max. output level (TERR. -60 dB IM3, SAT -35dB IM3)	SAT	dBμV	120			
	TERR		110			
Consummation (without LNB)			50			
Supply voltage			18Vdc 2.5A			
Operating temperature range			-10 to 40			
Packing dimensions		mm	220 x 250 x 50	235 x 315 x 50	230 x 310 x 50	250 x 500 x 50
Weight		Kg	0.55	1.21	1.35	1.51

## MULTISWITCHES

## SPLITTERS AND TAP-OFFS SERIES



electronics

## FSP/FTP Series

Splitters and tap-offs that allow to enlarge the size of the installation.



MODEL	SPLITTERS			TAP-OFFS						
	FSP 005	FSP 009	FSP 017	FTP 505	FTP 510	FTP 909	FTP 918	FTP 1717	FTP 1734	
Reference	86451	86454	86457	86452	86453	86455	86456	86458	86459	
Inputs	4 SAT + 1 TERR	8 SAT + 1 TERR	16 SAT + 1 TERR	4 SAT + 1 TERR		8 SAT + 1 TERR		16 SAT + 1 TERR		
Outputs	2x5 (4+1)	2x9 (8+1)	2x17 (16+1)	5 (4+1)	2x5 (4+1)	9 (8+1)	2x9 (8+1)	17 (16+1)	2x17 (16+1)	
Bands	TERR				47÷862					
	SAT				950÷2150					
Derivation	TERR				-12	-12	-12	-12	-12	-12
	SAT				-12	-12	-12	-12	-12	-12
Attenuation	TERR	-4	-4	-4	-1,5	-2	-1,5	-2	-1,5	-2
	SAT	-4	-4	-4	-0,5	-1	-0,5	-1	-0,5	-1
Isolation	SAT-SAT	>35			>35					
	SAT-TERR	>35			>35					
	OUT-OUT	>20			>30					
Operating temperature range	°C	-10 to 40								
Packing dimensions	mm	220 x 250 x 50	235 x 315 x 50	150 x 500 x 50	220 x 250 x 50		235 x 315 x 50		150 x 500 x 50	
Weight	Kg	0.25	0.4	0.6	0.25	0.28	0.4	0.4	0.6	0.6