Professional satellite systems

BTG

TURK EXIM

BTG

New series

Satellite "Multiswitch" System...

MULTISWITCH

SINGLE MULTISWITCH for NINE CABLE SYSTEM

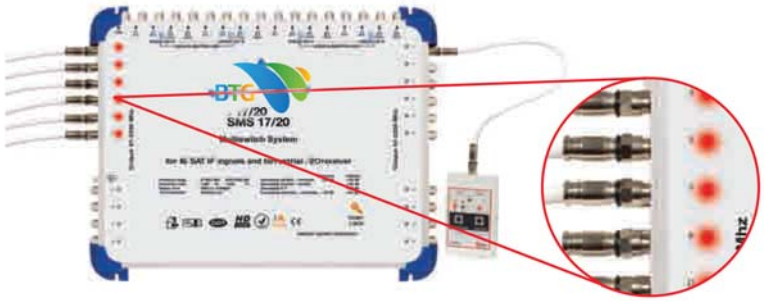
- Quat & Quatro LNB
- LNB feed property 14v18v22KHz
- Active gain circuit via terrestrial input
- Subscriber port protection up to 100 volts
- 100 m. distribution length per subscriber
- Subscriber control system with LED
- Ergonomically, stylish design
- Compatible with terrestrial digital broadcasts (DVB-T)
- Not sensitive to satellite receiver thanks to DiSEqC 2.1 software (firmware)
- Low cascading loss at high subscriber extensions
- Good adaptation to port interlock systems
- Zero fault in ports
- SMPS power supply
- Capable to function even at low signal levels due to high isolation
- Easy installation
- Low power consumption thanks to new generation components

SMS

9+1/8 *F* | 9+1/8 *C*

2 YEAR GUARANTEE

SMS 9+1/8 *Finite*



WARNING SYSTEM WITH LED

SMS 9+1/8 *Cascade*

TECHNICAL SPECIFICATIONS

	9+1/8 K	9+1/8 S
Input SAT+TERR	9 + 1	
Max. Output Level	Satelitte (IMA3) 102dBuV	
RF Connectors	F connectors 75 ohm	
DiSEqC	2.0 - 2.1 software	
DVB - T & DVB - C - HDTV	(YES)	
Subscriber Output Lock Facility	(YES)	
Frequency Range TERR	47 - 870 MHz	
Frequency Range SAT	950 - 2150 MHz	
SMPS Power Supply	220 V / 18 Vdc / 2000 mA	
Max. Current Consumption	550 mA	
Isolation SAT Subscriber-Subscriber	> 35 dB	> 35 dB
Isolation SAT-SAT	> 36 dB	> 36 dB
Isolation SAT-TERR	> 40 dB	> 40 dB
Isolation H/V	> 37 dB	> 37 dB
Number of Subscriber Outputs	8	8
Number of Cascade Outputs	9+1	
Side Gain TERR	0 dB±2	+2 dB±2
Side Gain SAT	+5 dB±4	+5 dB±4
Cascade Output TERR	- 3 dB	
Cascade Output SAT	- 1 dB	
Dimensions	*130x215x45 mm*	
Weight	520 g	

MULTISWITCH

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SMS

9+1/12F | 9+1/12C

SMS 9+1/12 *Finite*

2 YEAR GUARANTEE

LNB,TERR, POWER
ON - OFF Switching

SMS 9+1/12 *Cascade*

TECHNICAL SPECIFICATIONS

	9+1/12 K	9+1/12 S
Input SAT+TERR	9 + 1	
Max. Output Level	Satelitte (IMA3) 102dBuV	
RF Connectors	F connectors 75 ohm	
DiSEqC	2.0 - 2.1 software	
DVB - T & DVB - C - HDTV	(YES)	
Subscriber Output Lock Facility	(YES)	
Frequency Range TERR	47 - 870 MHz	
Frequency Range SAT	950 - 2150 MHz	
SMPS Power Supply	220 V / 18 Vdc / 2000 mA	
Max. Current Consumption	550 mA	
Isolation SAT Subscriber-Subscriber	> 36 dB	> 36 dB
Isolation SAT-SAT	> 35 dB	> 35 dB
Isolation SAT-TERR	> 40 dB	> 40 dB
Isolation H/V	> 35 dB	> 35 dB
Number of Subscriber Outputs	8	8
Number of Cascade Outputs	9+1	
Side Gain TERR	-3 dB±2	+1 dB±2
Side Gain SAT	+6 dB±5	+6 dB±5
Cascade Output TERR	- 3 dB	
Cascade Output SAT	- 1 dB	
Dimensions	*160x215x45 mm*	
Weight	645 g	

MULTISWITCH

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- Easy installation
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SMS

9+1/16 *F* | **9+1/16 *C***

WARNING SYSTEM WITH LED

SMS 9+1/16 *Finite*

2 YEAR GUARANTEE

SMS 9+1/16 *Cascade*

TECHNICAL SPECIFICATIONS

	9+1/16 K	9+1/16 S
Input SAT+TERR	9 + 1	
Max. Output Level	Satelitte (IMA3) 102dBuV	
RF Connectors	F connectors 75 ohm	
DiSEqC	2.0 - 2.1 software	
DVB - T & DVB - C - HDTV	(YES)	
Subscriber Output Lock Facility	(YES)	
Frequency Range TERR	47 - 870 MHz	
Frequency Range SAT	950 - 2150 MHz	
SMPS Power Supply	220 V / 18 Vdc / 2000 mA	
Max. Current Consumption	550 mA	
Isolation SAT Subscriber-Subscriber	> 35 dB	> 35 dB
Isolation SAT-SAT	> 34 dB	> 34 dB
Isolation SAT-TERR	> 40 dB	> 40 dB
Isolation H/V	> 34 dB	> 34 dB
Number of Subscriber Outputs	16	16
Number of Cascade Outputs	9+1	
Side Gain TERR	+3 dB±1	0 dB±1
Side Gain SAT	+4 dB±4	+4 dB±4
Cascade Output TERR	- 4 dB	
Cascade Output SAT	- 1 dB	
Dimensions	223x215x45 mm	
Weight	770 g	

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- Easy installation
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SMS

9+1/20*F* | 9+1/20*C*

LNB,TERR, POWER
ON - OFF Switching

2 YEAR GUARANTEE

SMS 9+1/20 *Finite*

SMS 9+1/20 *Cascade*

TECHNICAL SPECIFICATIONS

	9+1/20 K	9+1/20 S
Input SAT+TERR	9 + 1	
Max. Output Level	Satelitte (IMA3) 102dBuV	
RF Connectors	F connectors 75 ohm	
DiSEqC	2.0 - 2.1 software	
DVB - T & DVB - C - HDTV	(YES)	
Subscriber Output Lock Facility	(YES)	
Frequency Range TERR	47 - 870 MHz	
Frequency Range SAT	950 - 2150 MHz	
SMPS Power Supply	220 V / 18 Vdc / 2000 mA	
Max. Current Consumption	700 mA	
Isolation SAT Subscriber-Subscriber	> 34 dB	> 34 dB
Isolation SAT-SAT	> 37 dB	> 37 dB
Isolation SAT-TERR	> 40 dB	> 40 dB
Isolation H/V	> 37 dB	> 37 dB
Number of Subscriber Outputs	20	20
Number of Cascade Outputs	9+1	
Side Gain TERR	-5 dB±3	-2 dB±2
Side Gain SAT	+5 dB±4	+5 dB±4
Cascade Output TERR	- 5 dB	
Cascade Output SAT	- 2 dB	
Dimensions	260x215x45 mm	
Weight	910 g	

MULTISWITCH

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- Easy installation
- Low power consumption thanks to new generation components

SMS

9+1/24 *F* | **9+1/24 *C***

WARNING SYSTEM WITH LED

2 YEAR GUARANTEE

SMS 9+1/24 *Finite*

LNB,TERR, POWER
ON - OFF Switching

SMS 9+1/24 *Cascade*

TECHNICAL SPECIFICATIONS

	9+1/24 K	9+1/24 S
Input SAT+TERR	9 + 1	
Max. Output Level	Satelitte (IMA3) 102dBuV	
RF Connectors	F connectors 75 ohm	
DiSEqC	2.0 - 2.1 software	
DVB - T & DVB - C - HDTV	(YES)	
Subscriber Output Lock Facility	(YES)	
Frequency Range TERR	47 - 870 MHz	
Frequency Range SAT	950 - 2150 MHz	
SMPS Power Supply	220 V / 18 Vdc / 2000 mA	
Max. Current Consumption	700 mA	
Isolation SAT Subscriber-Subscriber	> 35 dB	> 35 dB
Isolation SAT-SAT	> 36 dB	> 36 dB
Isolation SAT-TERR	> 40 dB	> 40 dB
Isolation H/V	> 36 dB	> 36 dB
Number of Subscriber Outputs	24	24
Number of Cascade Outputs	9+1	
Side Gain TERR	-5 dB±2	-2 dB±2
Side Gain SAT	+6 dB±4	+6 dB±4
Cascade Output TERR	- 5 dB	
Cascade Output SAT	- 2 dB	
Dimensions	295x215x45 mm	
Weight	1120 g	

MULTISWITCH

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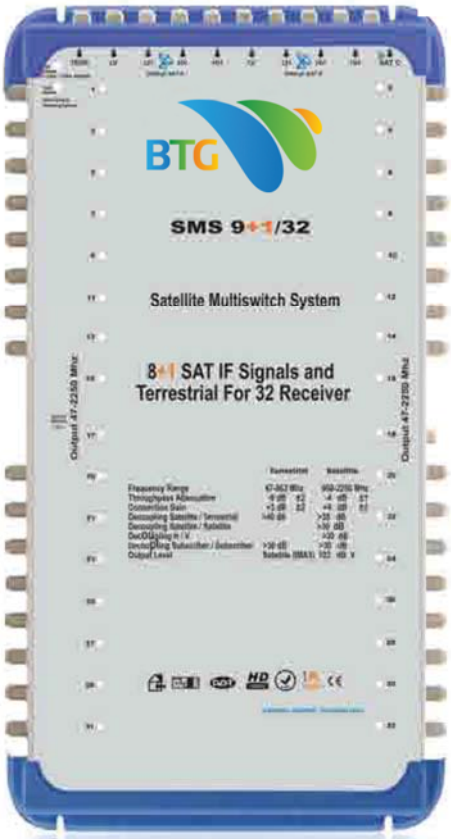
- Not sensitive to satellite receiver thanks to DiSEqC 2.1 software (firmware)
- Low cascading loss at high subscriber extensions
- Good adaptation to port interlock systems
- Zero fault in ports
- SMPS power supply
- Capable to function even at low signal levels due to high isolation
- Easy installation
- Low power consumption thanks to new generation components

SMS

9+1/32 *F* | 9+1/32*C*

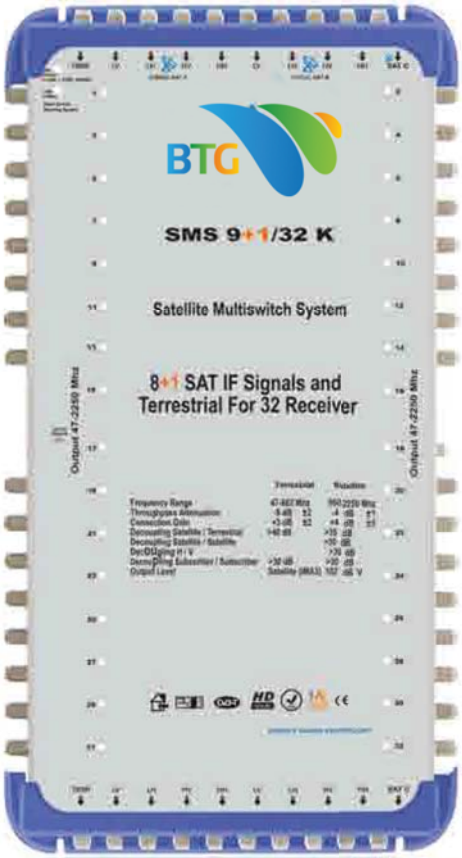
2 YEAR GUARANTEE

WARNING SYSTEM WITH LED



SMS 9+1/32 *Finite*

LNB,TERR, POWER
ON - OFF Switching



SMS 9+1/32 *Cascade*

TECHNICAL SPECIFICATIONS

	9+1/32 K	9+1/32 S
Input SAT+TERR	9 + 1	
Max. Output Level	Satelitte (IMA3) 102dBuV	
RF Connectors	F connectors 75 ohm	
DiSEqC	2.0 - 2.1 software	
DVB - T & DVB - C - HDTV	(YES)	
Subscriber Output Lock Facility	(YES)	
Frequency Range TERR	47 - 870 MHz	
Frequency Range SAT	950 - 2150 MHz	
SMPS Power Supply	220 V / 18 Vdc / 2000 mA	
Max. Current Consumption	700 mA	
Isolation SAT Subscriber-Subscriber	> 34 dB	> 34 dB
Isolation SAT-SAT	> 37 dB	> 37 dB
Isolation SAT-TERR	> 40 dB	> 40 dB
Isolation H/V	> 37 dB	> 37 dB
Number of Subscriber Outputs	32	32
Number of Cascade Outputs	9+1	
Side Gain TERR	-8 dB±3	-5 dB±3
Side Gain SAT	+6 dB±4	+6 dB±4
Cascade Output TERR	- 5 dB	
Cascade Output SAT	- 3 dB	
Dimensions	375x215x45 mm	
Weight	1370 g	

MULTISWITCH

17 INPUT 4 SATELLITE MULTISWITCH SYSTEM

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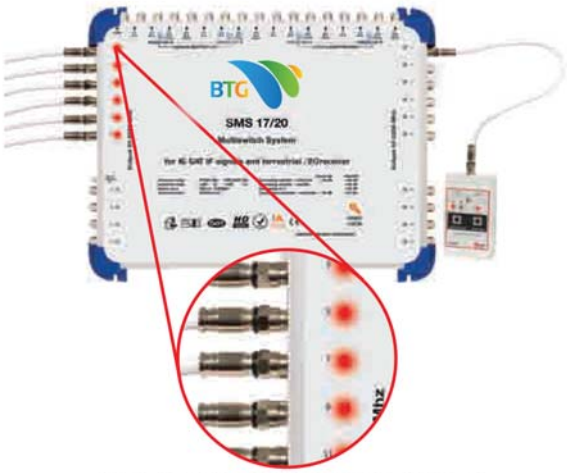
- Ergonomically, stylish design
- Compatible with terrestrial digital broadcasts (DVB-T)
- Not sensitive to satellite receiver thanks to DiSEqC 2.1 software (firmware)
- Low cascading loss at high subscriber extensions
- Good adaptation to port interlock systems
- Zero fault in ports
- SMPS power supply
- Capable to function even at low signal levels due to high isolation
- Easy installation
- Low power consumption thanks to new generation components

SMS

17/8 *F* | **17/8** *C*

SMS 17/8 *Finite*

2 YEAR GUARANTEE



WARNING SYSTEM WITH LED

SMS 17/8 *Cascade*

TECHNICAL SPECIFICATIONS

	17/8 K	17/8 S
Input SAT+TERR	16 + 1	
Max. Output Level	Satelitte (IMA3) 102dBuV	
RF Connectors	F connectors 75 ohm	
DiSEqC	2.0 - 2.1 software	
DVB - T & DVB - C - HDTV	(YES)	
Subscriber Output Lock Facility	(YES)	
Frequency Range TERR	47 - 870 MHz	
Frequency Range SAT	950 - 2150 MHz	
SMPS Power Supply	220 V / 18 Vdc / 2000 mA	
Max. Current Consumption	750 mA	
Isolation SAT Subscriber-Subscriber	> 33 dB	> 33 dB
Isolation SAT-SAT	> 35 dB	> 35 dB
Isolation SAT-TERR	> 40 dB	> 40 dB
Isolation H/V	> 35 dB	> 35 dB
Number of Subscriber Outputs	8	
Number of Cascade Outputs	16+1	
Side Gain TERR	-3 dB±2	-3 dB±2
Side Gain SAT	+5 dB±2	+5 dB±2
Cascade Output TERR	- 3 dB	- 3 dB
Cascade Output SAT	- 1 dB	- 1 dB
Dimensions	365x140x30 mm	365x140x30 mm
Weight	965 g	965 g

MULTISWITCH

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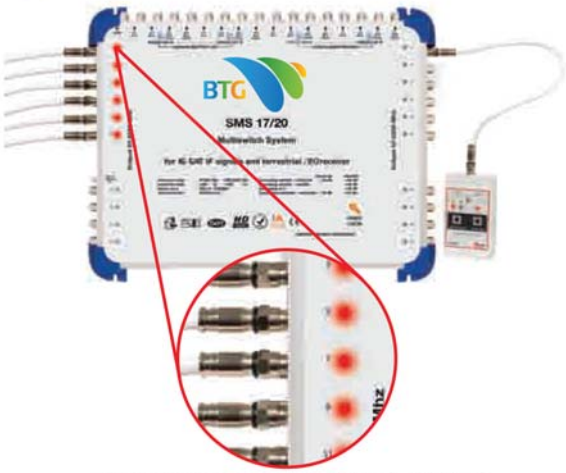
- Zero fault in ports
- SMPS power supply
- Capable to function even at low signal levels due to high isolation
- Easy installation
- Low power consumption thanks to new generation components

SMS
17/12 *F* **17/12** *C*

SMS 17/12 *Finite*

2 YEAR GUARANTEE



WARNING SYSTEM WITH LED

SMS 17/12 *Cascade*

TECHNICAL SPECIFICATIONS

	17/12 K	17/12 S
Input SAT+TERR	16 + 1	
Max. Output Level	Satelitte (IMA3) 102dBuV	
RF Connectors	F connectors 75 ohm	
DiSEqC	2.0 - 2.1 software	
DVB - T & DVB - C - HDTV	(YES)	
Subscriber Output Lock Facility	(YES)	
Frequency Range TERR	47 - 870 MHz	
Frequency Range SAT	950 - 2150 MHz	
SMPS Power Supply	220 V / 18 Vdc / 2000 mA	
Max. Current Consumption	750 mA	
Isolation SAT Subscriber-Subscriber	> 36 dB	> 36 dB
Isolation SAT-SAT	> 33 dB	> 33 dB
Isolation SAT-TERR	> 40 dB	> 40 dB
Isolation H/V	> 33 dB	> 33 dB
Number of Subscriber Outputs	12	12
Number of Cascade Outputs	16+1	16+1
Side Gain TERR	-5 dB±2	-5 dB±2
Side Gain SAT	+5 dB±2	+5 dB±2
Cascade Output TERR	- 3 dB	- 3 dB
Cascade Output SAT	- 2 dB	- 2 dB
Dimensions	365x165x30 mm	365x165x30 mm
Weight	1205 g	1205 g

MULTISWITCH

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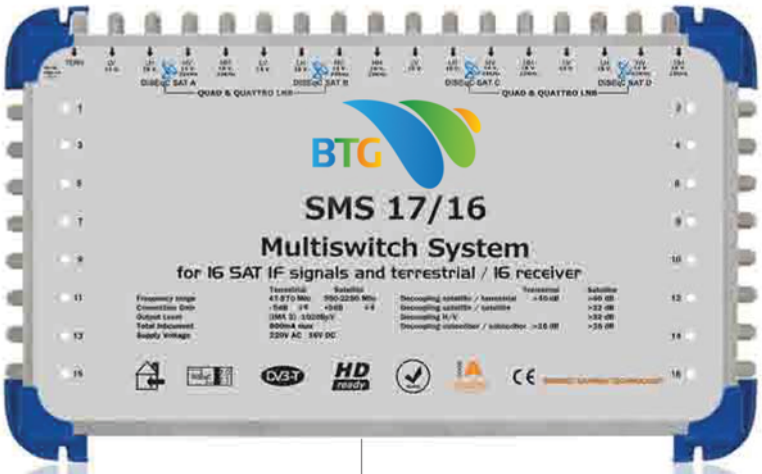
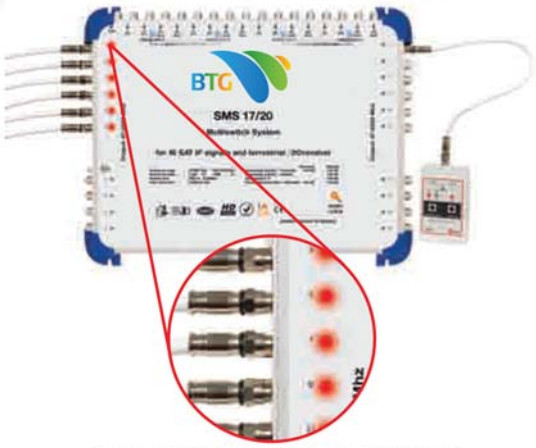
SMS

17/16 *F* | **17/16 *C***



SMS 17/16 *Finite*

2 YEAR GUARANTEE



WARNING SYSTEM WITH LED

SMS 17/16 *Cascade*

TECHNICAL SPECIFICATIONS

	17/16 K	17/16 S
Input SAT+TERR	16 + 1	
Max. Output Level	Satelitte (IMA3) 102dBuV	
RF Connectors	F connectors 75 ohm	
DiSEqC	2.0 - 2.1 software	
DVB - T & DVB - C - HDTV	(YES)	
Subscriber Output Lock Facility	(YES)	
Frequency Range TERR	47 - 870 MHz	
Frequency Range SAT	950 - 2150 MHz	
SMPS Power Supply	220 V / 18 Vdc / 2000 mA	
Max. Current Consumption	750 mA	
Isolation SAT Subscriber-Subscriber	> 36 dB	> 36 dB
Isolation SAT-SAT	> 32 dB	> 32 dB
Isolation SAT-TERR	> 40 dB	> 40 dB
Isolation H/V	> 32 dB	> 32 dB
Number of Subscriber Outputs	16	16
Number of Cascade Outputs	16+1	
Side Gain TERR	-5 dB±2	-5 dB±2
Side Gain SAT	+5 dB±4	+5 dB±4
Cascade Output TERR	- 3 dB	- 3 dB
Cascade Output SAT	- 2 dB	- 2 dB
Dimensions	365x205x30 mm	365x205x30 mm
Weight	1510 g	1510 g

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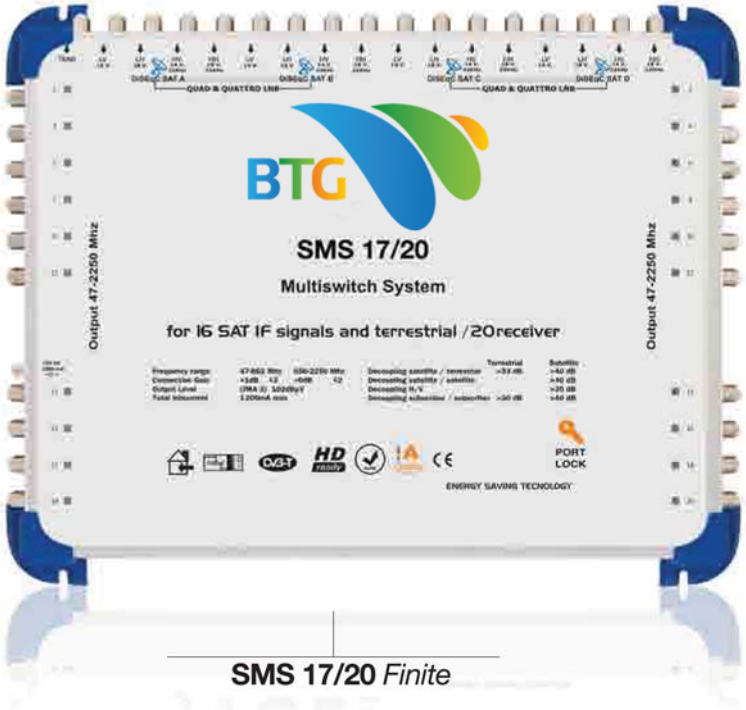
- Easy installation
- Low power consumption thanks to new generation components

SMS

17/20 *F* **17/20** *C*



SMS 17/20 *Finite*

2 YEAR GUARANTEE

SMS 17/20 *Cascade*

TECHNICAL SPECIFICATIONS

	17/20 K	17/20 S
Input SAT+TERR	16 + 1	
Max. Output Level	Satelitte (IMA3) 102dBuV	
RF Connectors	F connectors 75 ohm	
DiSEqC	2.0 - 2.1 software	
DVB - T & DVB - C - HDTV	(YES)	
Subscriber Output Lock Facility	(YES)	
Frequency Range TERR	47 - 870 MHz	
Frequency Range SAT	950 - 2150 MHz	
SMPS Power Supply	220 V / 18 Vdc / 2000 mA	
Max. Current Consumption	900 mA	
Isolation SAT Subscriber-Subscriber	> 35 dB	> 35 dB
Isolation SAT-SAT	> 34 dB	> 34 dB
Isolation SAT-TERR	> 40 dB	> 40 dB
Isolation H/V	> 34 dB	> 34 dB
Number of Subscriber Outputs	20	20
Number of Cascade Outputs	16+1	
Side Gain TERR	-7 dB±2	-7 dB±2
Side Gain SAT	+6 dB±5	+6 dB±5
Cascade Output TERR	- 5 dB	- 5 dB
Cascade Output SAT	- 3 dB	- 3 dB
Dimensions	365x290x30 mm	365x290x30 mm
Weight	1980 g	1980 g

MULTISWITCH

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- Good adaptation to port interlock systems
- Zero fault in ports
- SMPS power supply
- Capable to function even at low signal levels due to high isolation
- Easy installation
- Low power consumption thanks to new generation components

SMS

17/24 *F* | **17/24** *C*

SMS 17/24 *Finite*

2 YEAR GUARANTEE

SMS 17/24 *Cascade*

TECHNICAL SPECIFICATIONS

	17/24 K	17/24 S
Input SAT+TERR	16 + 1	
Max. Output Level	Satelitte (IMA3) 102dBuV	
RF Connectors	F connectors 75 ohm	
DiSEqC	2.0 - 2.1 software	
DVB - T & DVB - C - HDTV	(YES)	
Subscriber Output Lock Facility	(YES)	
Frequency Range TERR	47 - 870 MHz	
Frequency Range SAT	950 - 2150 MHz	
SMPS Power Supply	220 V / 18 Vdc / 2000 mA	
Max. Current Consumption	900 mA	
Isolation SAT Subscriber-Subscriber	> 36 dB	> 36 dB
Isolation SAT-SAT	> 32 dB	> 32 dB
Isolation SAT-TERR	> 40 dB	> 40 dB
Isolation H/V	> 32 dB	> 32 dB
Number of Subscriber Outputs	24	24
Number of Cascade Outputs	16+1	
Side Gain TERR	-8 dB±2	-8 dB±2
Side Gain SAT	+4 dB±5	+4 dB±5
Cascade Output TERR	- 7 dB	- 7 dB
Cascade Output SAT	- 4 dB	- 4 dB
Dimensions	365x325x30 mm	365x325x30 mm
Weight	2160 g	2160 g

MULTISWITCH

17 INPUT 4 SATELLITE MULTISWITCH SYSTEM

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- LNB feed property 14v18v22KHz
- Active gain circuit via terrestrial input
- Subscriber port protection up to 100 volts
- 100 m. distribution length per subscriber
- Subscriber control system with LED
- Ergonomically, stylish design
- Compatible with terrestrial digital broadcasts (DVB-T)
- Not sensitive to satellite receiver thanks to DiSEqC 2.1 software (firmware)
- Low cascading loss at high subscriber extensions
- Good adaptaton to port interlock systems
- Zero fault in ports
- SMPS power supply
- Capable to function even at low signal levels due to high isolation
- Easy installation
- Low power consumption thanks to new generation components

SMS 17/32 *Finite*

2 YEAR GUARANTEE

SMS 17/32 *Cascade*

TECHNICAL SPECIFICATIONS

	17/32 K	17/32 S
Input SAT+TERR	16 + 1	
Max. Output Level	Satelitte (IMA3) 102dBuV	
RF Connectors	F connectors 75 ohm	
DiSEqC	2.0 - 2.1 software	
DVB - T & DVB - C - HDTV	(YES)	
Subscriber Output Lock Facility	(YES)	
Frequency Range TERR	47 - 870 MHz	
Frequency Range SAT	950 - 2150 MHz	
SMPS Power Supply	220 V / 18 Vdc / 2000 mA	
Max. Current Consumption	900 mA	
Isolation SAT Subscriber-Subscriber	> 36 dB	> 36 dB
Isolation SAT-SAT	> 33 dB	> 33 dB
Isolation SAT-TERR	> 40 dB	> 40 dB
Isolation H/V	> 33 dB	> 33 dB
Number of Subscriber Outputs	32	32
Number of Cascade Outputs	16+1	
Side Gain TERR	-10 dB±2	-10 dB±2
Side Gain SAT	+4 dB±6	+4 dB±6
Cascade Output TERR	- 7 dB	- 7 dB
Cascade Output SAT	- 5 dB	- 5 dB
Dimensions	365x395x30 mm	365x395x30 mm
Weight	2675 g	2675 g

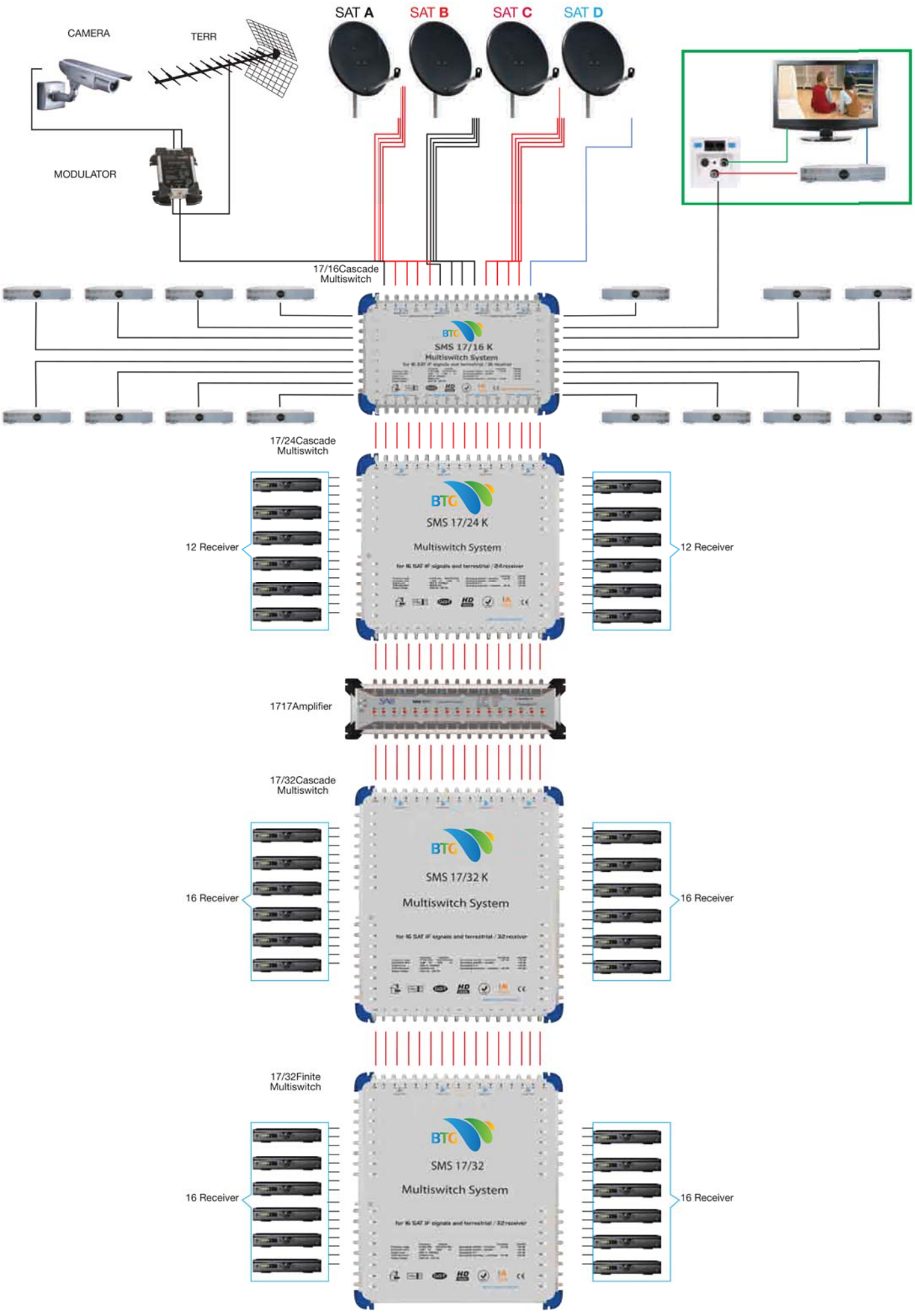


DIAGRAM of DISTRIBUTION for 104 APARTMENTS

BTG

Fiber Optic System

Professional System Optical Receiver Multiswitch
Professional System Optical Transmitter Multiswitch

5x5 4x4 1x1

NEW

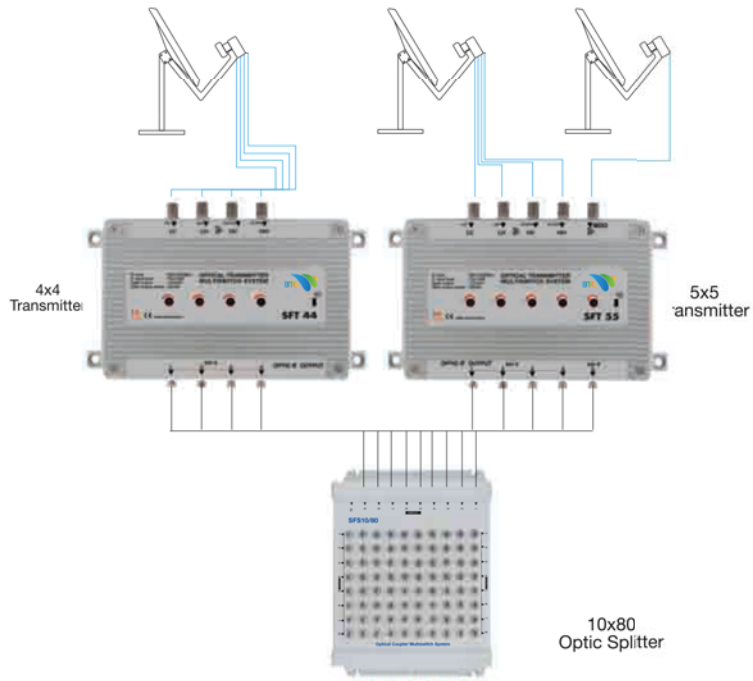
OPTICAL TRANSMITTER MULTISWITCH SYSTEM
OPTICAL RECEIVER MULTISWITCH SYSTEM

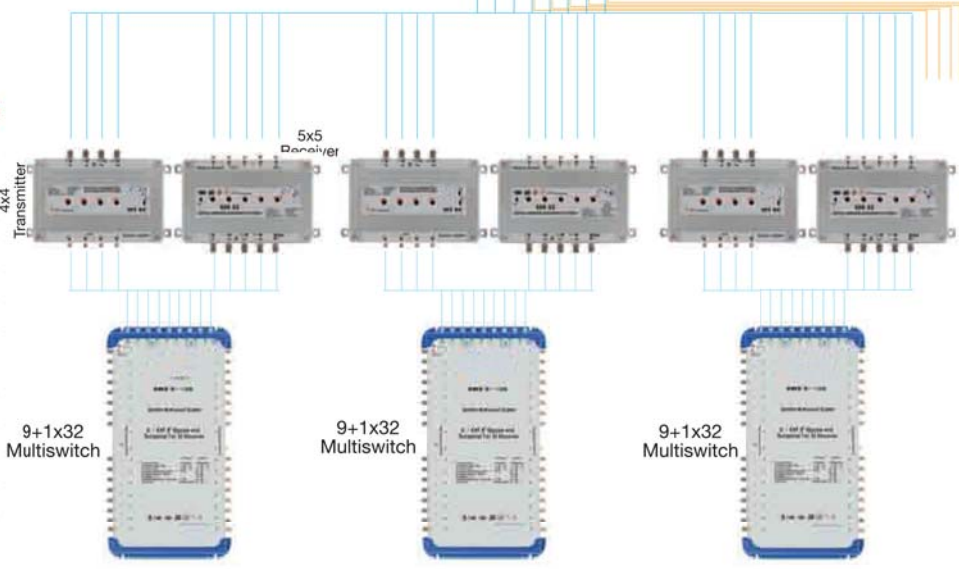
SFT 55

- **SFT 55 OPTICAL TRANSMITTER**
- Quat & Quatro LNB
- LNB feed property 14v18v22KHz
- All types LNB to adapt Qu band C band, MDU.
- Each polerite different IF signal input
- Low probability of failure
- Each input desired polarite broadcast input.

2 YEAR GUARANTEE

SFR 55





TECHNICAL SPECIFICATIONS	SFT 55	SFR 55
Input	5 F connectors	5 Optical FC/UPC
Output	5 Optical FC/UPC	5 F connectors
Frequency Range SAT	950-2150 Mhz	950-2150 Mhz
Attenator	20dB	20dB
Optical wavelength	1310nm	1310nm
Max output:(TFR55)	-	110dBm
Optical output power	2mW	-
Input level max.(Transmitter)	80±20dBm	
SAT 950...2150MHz		-
Power supply	18Vdc 3Amp	18Vdc 3Amp
Ambient temperature	-40+85°C	-40+85°C
Dimensions	195x130x40mm	195x130x40mm
Weight	625gr.	625gr.
		Low probability of failure

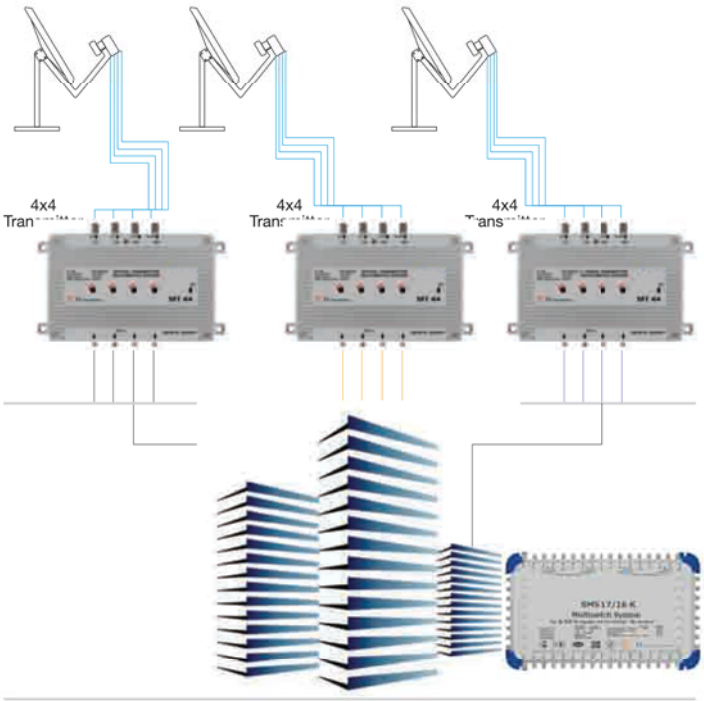
OPTICAL TRANSMITTER MULTISWITCH SYSTEM
OPTICAL RECEIVER MULTISWITCH SYSTEM

NEW

2 YEAR GUARANTEE

- **SFT 44 OPTICAL TRANSMITTER**
- Quat & Quatro LNB
- LNB feed property 14v18v22KHz
- All types LNB to adapt Qu band C band, MDU.
- Each polerite different IF signal input
- Low probability of failure
- Each input desired polarite broadcast input.

SFT 44



SFR 44

TECHNICAL SPECIFICATIONS	SFT 44	SFR 44
Input	4 F connectors	4 Optical FC/UPC
Output	4 Optical FC/UPC	4 F connectors
Frequency Range SAT	950-2150 Mhz	950-2150 Mhz
Atternator	20dB	20dB
Optical wavelength	1310nm	1310nm
Max output:(TFR55)	-	110dBm
Optical output power	2mW	-
Input level max.(Transmitter)	80±20dBm	
SAT 950...2150MHz		-
Power supply	18Vdc 3Amp	18Vdc 2Amp
Ambient temperature	-40+85°C	-40+85°C
Dimensions	195x130x40mm	195x130x40mm
Weight	625gr.	625gr.

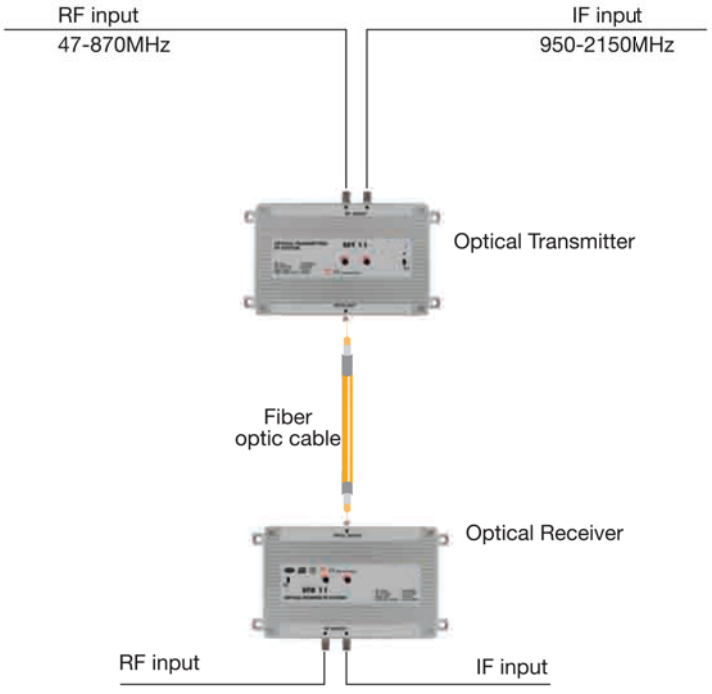
Low probability of failure

OPTICAL TRANSMITTER MULTISWITCH SYSTEM
OPTICAL RECEIVER MULTISWITCH SYSTEM

NEW

2 YEAR GUARANTEE

SFT 11



SFR 11

TECHNICAL SPECIFICATIONS	SFT 11	SFR 11
Input	2 F connectors	1 Optical FC/UPC
Output	1 Optical FC/UPC	2 F connectors
Frequency TERR	47-870 Mhz	47-870 Mhz
Frequency SAT	950-2150 Mhz	950-2150 Mhz
Atternator	20dB	20dB
Optical wavelength	1310nm	1310nm
Optical output power	5mW	-
Output level max	100dbµV	-
(terr 47-870Mhz)		
Output level max	100dbµV	-
(sat 950-2150 Mhz)		
Power consumption	12W	-
Power supply	18Vdc 3Amp	18Vdc 2Amp
Ambient temperature	-40+85°C	-40+85°C
Dimensions	195x130x40mm	195x130x40mm
Weight	600gr.	600gr.
	Low probability of failure	Low probability of failure

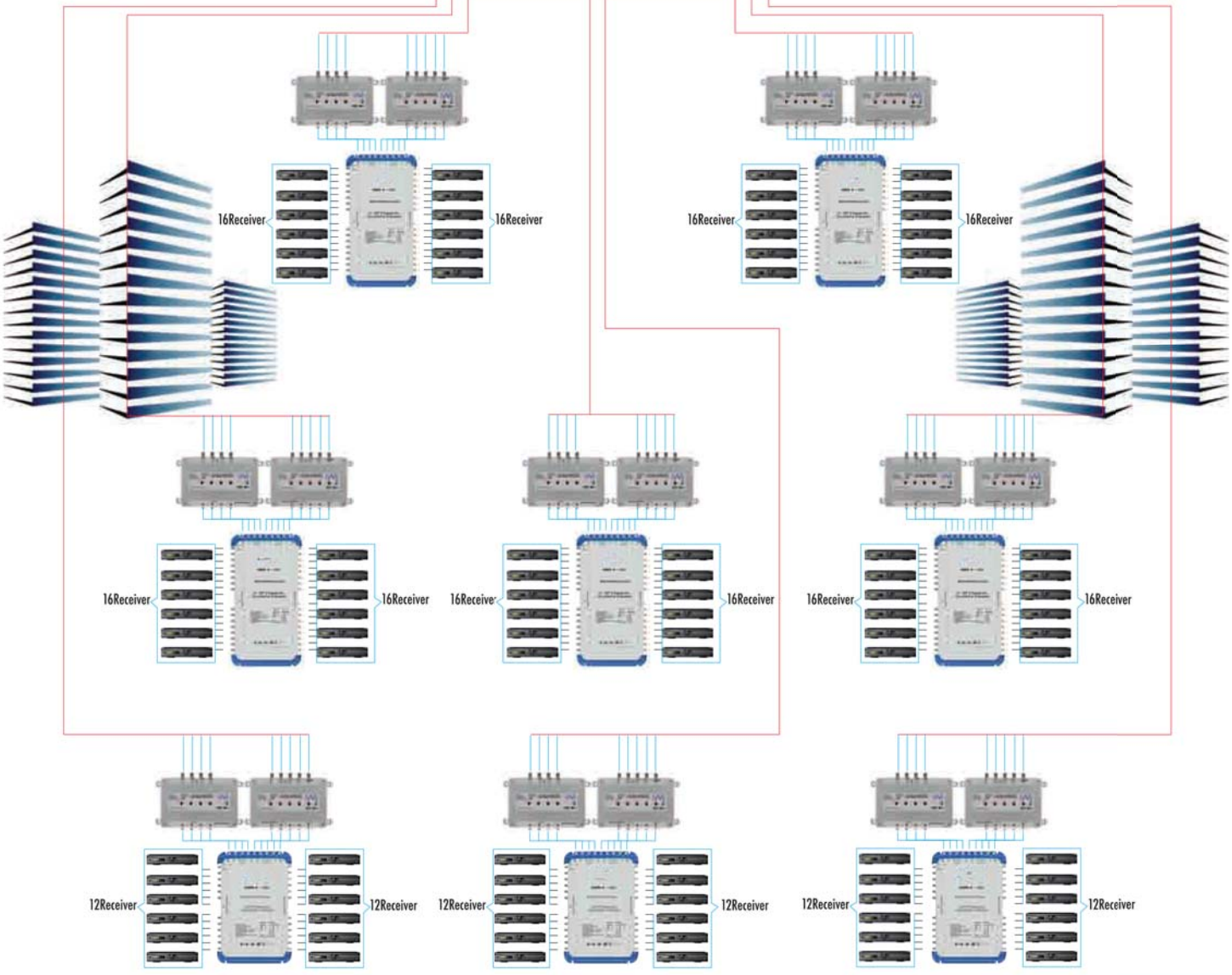
56 Channels headend,
cable tv distribute.

•Fiber optic,system 9 IF +1 RF
input capacity has a of
The system infrastructure on the
headend, cable tv distribute.

4x4 Transmitter

5x5 Transmitter

10/80 Optic Splitter



Optical System 8 blocks, 3 satellite site sample deployment diagram

SYM 890

8 CHANNEL VSB COMPACT MODULATOR
HALF-AGILE

In cases where the multiple broadcasts are to be fed into Distribution systems, due to the limitations in the frequency spectrum, it is apparent that vestigial side band functioning is inevitable. In such cases, the selectivity of the filters is required to be increased by using sharp structured filters [SAW] in modulators and is required to be suitable for functioning at side band. TeknikSat SYM 890 TV Modulator Outputs of which general Implementation areas are the Cable TV (CATV), Satellite Receiver Centers, Antenna Systems (SMATV) are formed by utilizing SAW filters so as to increase the selectivity.

The Audio / Video signals from Satellite Receiving Devices at TeknikSat SYM 890 TV Modulators are primarily modulated at standard Intermediate Frequency (IF) and then passed through the SAW filters so that they are formed in VSB signal form, and then are converted into any channel (CCIR B+G) so that they are suitable for vestigial side band functioning.

TeknikSat SYM 890 TV Modulator, by means of its balanced outputs can be easily adapted to the TeknikSat TV - VSB System series and can be combined to the units in desired quantities. It is equipped with a RF Attenuator which is capable to calibrate the gain up to -20dB via device menu. Besides this, the video card has features such as white level limiter and Clamp structures.

General Settings on 2 x 40 LCD Display.

1) Frequency setting VHF I, VHF III, S Band, UHF (S02-C69 , At each channel all the frequency band can be traced)
2) By means of menu settings, the output level for desired channel can be attenuated up to -20 dB.
3) The Video and Audio Level for each channel can be set.

4) 8 Channel VSB Modulator
5) It is manufactured by using HALF AGILE Technology.

It is possible to obtain any capacity between 8 – 72 channels by using 8 channel combinations with TeknikSat SYM 890 modulators as a single unit.

Programmable with 8 channels capacity, Single Side Band SMATV Modulator. 19" Rack type Mechanical structure compatible with all international BG standards.
Output frequency range with Large Bandwidth.
Output channel can be adjusted digitally.
High and stable output level. Digitally controlled. Stable and reliable performance by means of micro processor control. Independent A/V level adjustment for each channel separately. Test pattern or black screen feature for central audio broadcasts. Easy and effective maintenance possibility due to modular internal structure. Operation even at low means voltages by means of SMPS Power Supply [90 – 270 V AC]

SYM 890 Application Places: In Hotels, Hospitals, Mass Housing, School Buildings, Villas Sites and Business Centers, when the quality broadcast is concerned, this system provides the transmission of much more channels. It is expendable for channel addition due to its modular structure.

TECHNICAL SPECIFICATIONS

VIDEO		SYM 890
Video Bandwidth		20Hz - 5 MHz
Input Level		1Vpp ±0,4

AUDIO		SYM 890
Audio Bandwidth		40Hz - 15 KHz
Audio Level		+6 dB.....- 3 dB

MODULATOR		SYM 890
Output Frequency		45 - 862 Mhz
Output Level		85 dBµV
TV Standard		PAL-BG
Modulation		VSB (NEG-AM % 80)
Intermediate Frequency		FV 38.9 FS.33.4 Vpp / 75 Ohm ±1-3
Connectors RF		F - Dişi
Video-Audio Input Connector		Tos (RCA)
Operating Temperature		0°C ..... +55°C
Storage Temperature		-25°C .... +75°C
RF Output Level Adjustment Range		0 dB - 10 dB
Power Supply		220 V - 5 V 5 A - 12 V 2 A - 33 V 100 mA
Dimensions		46 x 48, 4 x 335
Weight		4200 gr

SRM 08

HALF-AGILE

2 YEAR GUARANTEE

8 CHANNEL DSB COMPACT MODULATOR

Small and medium-sized Hotel, Side, Hospital, Housing limitation of the number of subscribers and channels 100-150 on systems that have up to 24 channels Technoline DSB modulator is used distribution system. One due to the double side tape Technoline 08'de SDM broadcast channel can be given by leaving a gap. SDM08 Technoline modulators, satellite-receiver audio / video signals, the RFfrequency is converted to the desired shape and desired to any channel to any channel DSB (CCIR B + G) becomes eligible to work
as a double side tape wereconverted.
Adopt a balanced modulator outputs SDM08 EDILE Technoline knows, and three units can be combined with easily. The device of up to-10dB gain adjustment menuthat can be equipped with an RF Attenuator.
2x20 LCD display making common adjustments.

1) Frequency setting 1 Group: VHF I, VHF III, S Band, S02-S40
2. Group: UHF C21-C69
(S02-S40 Each channel can surf the entire frequency band, including C5-12.)
2) all through the menu settings of the channel be attenuated up to -10dB output level.
3) As a group known to be changed output frequency settings.
4) Test Signal output for each channel.
5) Half Technology is produced with AGILE.
6) the desired channel can be closed via the menu
7) RF Output Section of the Low Insertion Loss-1dB due to Input Loop
Warm Climate Regions trouble-free performance with Active Cooling
9) Wall Mount Type

TECHNICAL SPECIFICATIONS

VIDEO		SRM 08
Video Bandwidth		20Hz - 5 MHz
Input Level		1Vpp ±0,4

AUDIO		SRM 08
Audio Bandwidth		40Hz - 15 KHz
Audio Level		+6 dB.....- 3 dB

MODULATOR		SRM 08
Output Frequency		111 - 862 MHz
Output Level		85 dBµV
TV Standard		PAL - BG
Connectors RF		F - Dişi
Video-Audio Input Connector		Tos (RCA)
Operating Temperature		0ºC ..... +55ºC
Storage Temperature		-25ºC .... +75ºC
RF Output Level Adjustment Range		0 dB - 10 dB
Dimensions		482x280x50 mm
Weight		2,900 g

2 YEAR GUARANTEE

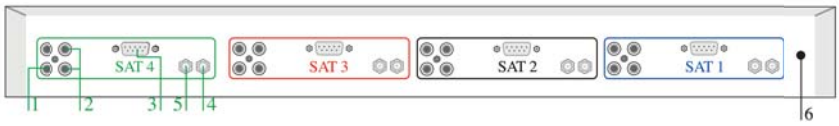
SCM 4400

QPSK-A/V

- 4 Channel QPSK-A/V demodulator, within a mechanical frame compatible to professional 19" standard
- There are seperate displays at the front panel of each unit
- By means of IR select buton on the front panel, it is possible to select desired receiver and set up with control unit
- Volume level can be selected as mono and stereo and can be adjusted separately for each channel
- Voltage supply for LNB can be provided via the 1st or the 4th module
- Installation by means of video PID and audio PID
- Software update by means of RS-232 interface
- Integration capability of single side band (SSB) and double side band (DSB) modulators with A / V outputs externally
- Continuous monitoring the internal environment temperature and in case exceeds the safety limits, switching feature for additional ventilation
- Switching power supply 90 - 270 Vac

SMC 4400 back panel connection ports

1- Video output
2- Audio output left / right
3- RS-232 comm port
4- IF input
5- IF output
6- Power (220 W)



TEKNİK ÖZELLİKLER	TECHNICAL SPECIFICATIONS	SCM 4400
Number of Modules	4 pcs Satellite Demodulator, in 19" Rack 2U units	
Control	Module selectable and independent,programming via TV/OSD	
Tuner	Input S/R	2.0~ 45 Mb/s
	Package Width	204,188
	Demodulation Mode	QPSK
	FEC	1/2, 2/3, 3/4, 5/6, 7/8, (K=7)
	LNB Power	18 V, 1 ve 4.moduls (total max 700 mA)
Input	Input Frequency	950~2150 MHz
	Input Level	-25~ -65 dBm
	Input Impedance	75 Ω, F-type
MPEG TS A/V / Decoding	Decode Standard	13818, MPEG-2 MP@ML
	Output Format	NTSC & PAL
	Audio Standards	720x576 (PAL)°A720x480 (NTSC)
	Decode Standards	MPEG-1 LAYER I, II, Musicam
	Audio Standarts	Stereo Left and Right
	Sampling Ratio	32, 44.1 and 48 KHz
CPU & Memory	Main Processor	ALI 3329 C
	SDRAM Memory	8 Mbayt
	Flash Memory Unit	2 Mbayt
Video Output	Output Empedance	75 Ω, RCA*2
	Output Level	1.0 V±20 mVp-p
	Freq. Feature	±0.5 dB (4.8 MHz)
	Differential Gain	≤ 5%
	Differential Phase	≤ 5°
	C/L Delay	≤ 30 ns
Audio Output	Output Empedance	680 Ω, RCA*2
	Output Level	±6 dB
	Level Correctness	±0.5 dB (20 Hz..18 Hz)
	Audio S/N Ratio	≤ 70 dB
	Difference Between Channels	≤ 0.5 dB (20 Hz...18 Hz)
Data Output	RS-232	9 pin D-sub Type, Baud rate 9600~115200 Kbps
General	Operating Environment Temp.	-5°C...55°C
	Power Supply	AC 90 V...256 V, 50 Hz / 60 Hz, 25 W
	Mechanical Structure	19'' EIA 2U Rack
	Dimensions	445—255—90 mm
	Weight	4.200 g

QPSK-A/V

SCM 8800 F
SCM 8800 L

* 3,5" TFT LCD Display

2 YEAR GUARANTEE

Professional Solution for Central Distribution of Digital Satellite Broadcasts

- 8 Channel QPSK-A/V Demodulator, within a mechanical frame compatible to professional 19" Standard
- By means of IR Select button on the front panel, it is possible to select desired receiver and set up with remote control.
- There are seperate Display on the front panel for each unit.
- Volume level can be selected as mono and stereo and can be adjusted for each channel.
- Voltage supply for LNB can be provided via 1st and 8th module
- Installation by means of Video PID and Audio PID
- Software update by means of RS-232 interface
- Integration capability of Single Side Band (SSB) and Double Side Band (DBS) Modulators with A-V outputs externally
- Continuous monitoring the internal environment tempature, and in case exceeds the safety limits, switching feature for additional ventilation
- Switching power supply 90-270 VAC / 12-30 DC
- Automatic Cooling System

Applications Places: Traveller Busses, Cruise Ships, Feries, Central Broadcasting Systems

Back Panel Connection Ports

1- Video Output
2- Audio Output Left/Right
3- RS-232
4- IF Input
5- Fuse
6- Power (220W)
7- Cooling System

TECHNICAL SPECIFICATIONS

		SCM 8800 L - SCM 8800 F
Number of Module Control	8 Pcs Satellite Demodulator, in 19'' Rack 2U Module selectable and independant, programming via TV/OSD	
Tuner	Input S/R	2.0~ 45 Mb/s
	Package Width	204,188
	Demodulation QPSK	
	FEC	1/2, 2/3, 3/4, 5/6, 7/8, (K=7)
	LNB Power	18V, 1st and 4th modules (total max 700mA)
Input	Input Frequency	950~2150MHz
	Input Level	-25~ -65dBm
	Input Empedance	75Ω, F-type
MPEG TS A/V Decoding	Decode Standard	13818, MPEG-2 MP@ML
	Output Format	NTSC & PAL
	Video Resolution	720x576 (PAL)°A720x480 (NTSC)
	Decode Standard	MPEG-1 LAYER I, II, Musicam
	Audio Standards	Stereo Left and Right
	Sampling Rate	32, 44.1 and 48KHz
CPU & Memory	Main Processor	ALI 3328 G
	SDRAM Memory	8 MB
	Flash Memory Unit	2 MB
Video Output	Output Empedance	75Ω, RCAx2
	Output Level	1.0V±20mVp-p
	Freq. Feature	±0.5dB (4.8MHz)
	Differential Gain	5%
	Differential Phase	5°
	C/L Delay	30ns
Audio Output	Output Empedance	680Ω, RCAx 2
	Output Level	±6dB
	Level Correctness	±0.5dB (20Hz..18Hz)
	Audio S/N Ratio	70dB
	Difference between channel	0.5dB (20Hz...18Hz)
Data Output	RS-232	9 pin D-sub Type, Baud rate
General	Operating Environment Temp	9600~115200Kbps
	Power Supply	-5°C...55°C
	Mechanic Structure	AC 90V..256V, 50Hz/60Hz, 25W, DC 12V..30V
	Dimensions	19'' EIA 2U Rack
	Weight	485mm*—320mm*—90mm 3000 gr

SDM 08 HALF-AGILE

8 CHANNEL DSB COMPACT MODULATOR

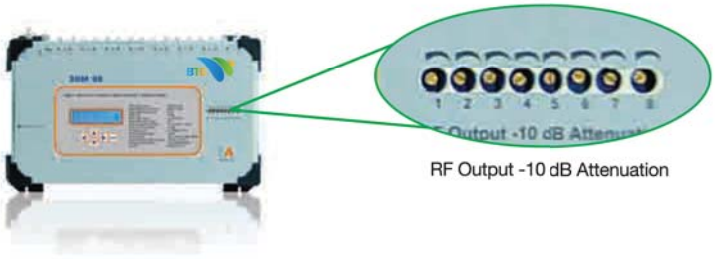
Small and medium-sized Hotel, Side, Hospital, Housing limitation of the number of 100-150 subscribers and channels on systems that have up to 24 channels

Technoline DSB modulator is used distribution system. One due to the double side tape Technoline 08'de TDM broadcast channel can be given by leaving a gap.

SDM08 Technoline modulators, satellite-receiver audio / video signals, the RFfrequency is converted to the desired shape and desired to any channel DSB (CCIR B + G) becomes eligible to work as a double side tape wereconverted.

Adopt a balanced modulator outputs TDM08 EDILE Technoline knows, and three units can be combined with easily. The device of up to-10dB gain adjustment menu that can be equipped with an RF Attenuator. 2x20 LCD display making common adjustments.

1) Frequency setting 1 Group: VHF I, VHF III, S Band, S02-S40 (S02-S40 Each channel can surf the entire frequency band, including C5-12.)
2. Group: UHF C21-C69
2) all through the menu settings of the channel be attenuated up to-10dB output level.
3) As a group known to be changed output frequency settings.
4) Test Signal output for each channel.
5) Half Technology is produced with AGILE.
6) the desired channel can be closed via the menu
7) RF Output Section of the Low Insertion Loss-1dB due to Input Loop Warm Climate Regions trouble-free performance with Active Cooling
9) Wall Mount Type



RF Output -10 dB Attenuation

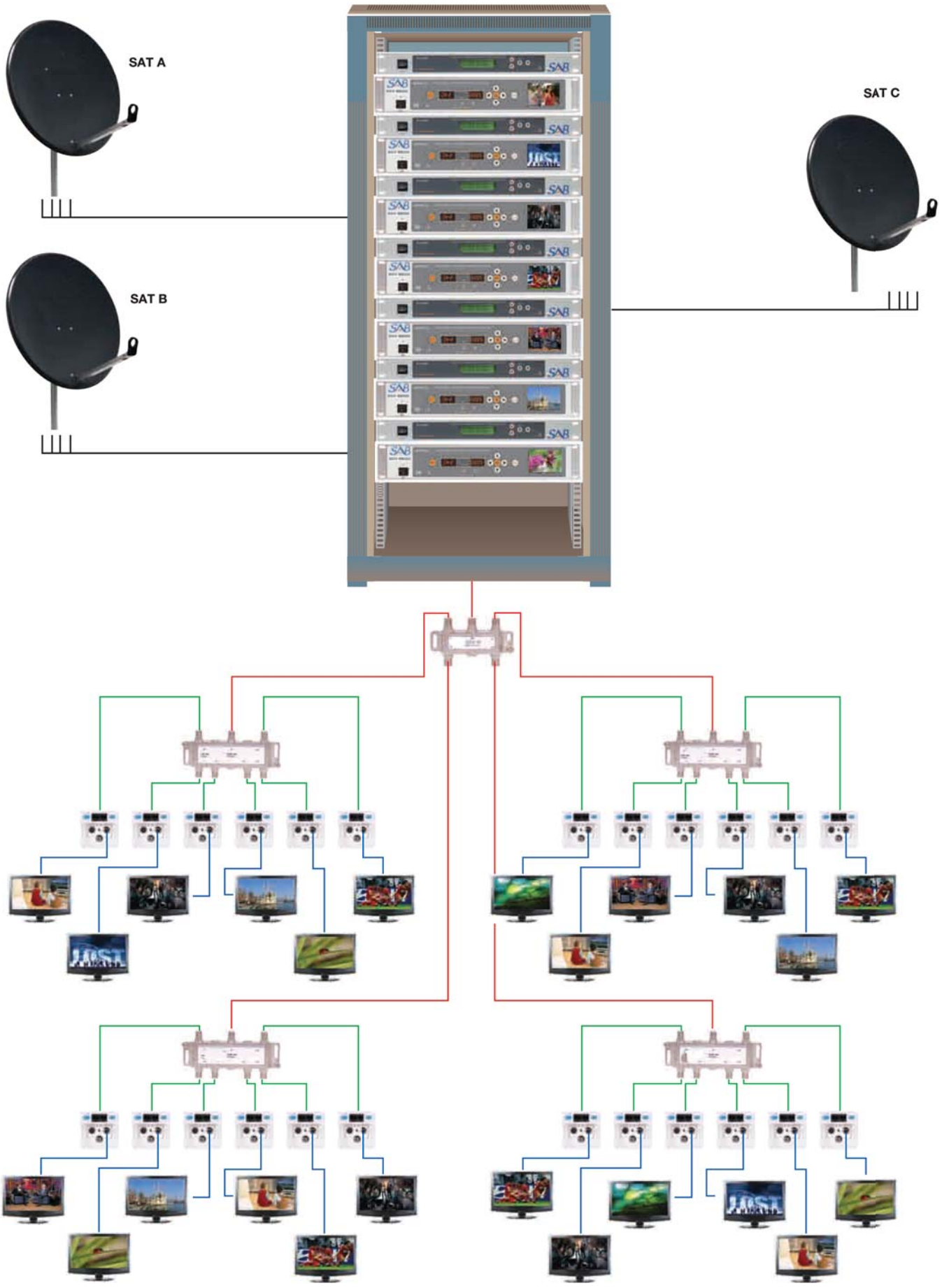
TECHNICAL SPECIFICATIONS

VIDEO		SDM 08
Video Bandwidth		20Hz - 5 MHz
Input Level		1Vpp ±0,4

AUDIO		SDM 08
Audio Bandwidth		40Hz - 15 KHz
Audio Level		+6 dB.....- 3 dB

MODULATOR		SDM 08
Output Frequency		111 - 862 MHz
Output Level		85 dBµV
TV Standard		PAL - BG
Connectors RF		F - Dişi
Video-Audio Input Connector		Tos (RCA)
Operating Temperature		0ºC ..... +55ºC
Storage Temperature		-25ºC .... +75ºC
RF Output Level Adjustment Range		0 dB - 10 dB
Dimensions		345x210x52 mm
Weight		1,000 g

48 CHANNELS DISTRIBUTION SYSTEM of SINGLE SIDE BAND



STA 822 R

TWO WAY TRANSMISSION DISTRIBUTION CATV AMPLIFIER

Suitably used in bi-directional transmission (can be reserved) and signal equalization
of multi-class trunk transmission or high-required distiributive network. Adopt PHILIPS, NEC imported power doubler modules. Audio pre-amplifier is low-noise microwawe tube push-pull amplifier to insure enough gain. It has 1 input and 2 outputs, and each connection has over-current protection. The output branch or distiributiveness can be changed following it. Double-equalizer is used, so adjusting multi-class transmission flatness is simple and convenient. Attenuator and equalizer are plug-in, so customers can choose fixed or adjustable style. High-relitable switch power (or linear power) and strict waterproof and anti-thunder design insure steady durative work.

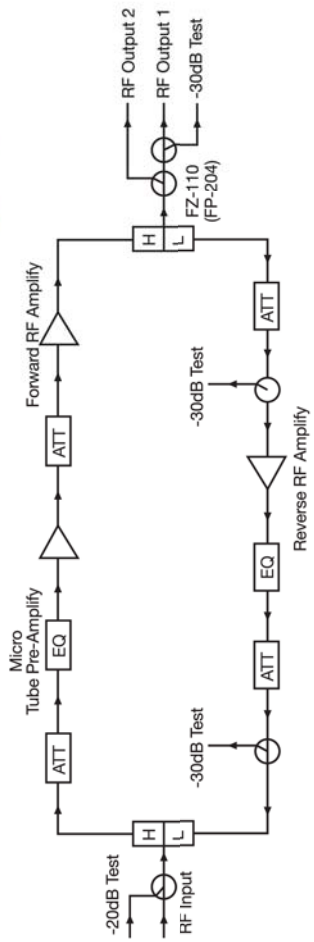
CAUTION

- In order to insure long-distance transmission flatness and low-frequency band carrier to noise ratio, fixed equal plug-in should be use correctly. The accuracy of frequency balanced plug-in is high, so usually it is no need to adjust class electric circuit if without appropriation standard instrument.
- Must use the power with over-current protection.
- When the installation finished, please examine over-current circumstance. If need not over-current protection circuit, must pull out the fuse in this circuit. You should examine if the load is a short circuit with a multimeter when you need over-current protection circuit.

SERVICE: The product installed or maintained by professionals. Our company has entrust local franchisers to responsible for it. Any technique consult, please contact local franchisers or Technique

TECHNICAL SPECIFICATIONS

	STA 822 R
FORWARD	
Gain	30 dB
Gain Accuracy	+/-1 dB
Gain Adjustment	0....-20 dB
Gain Control Range of Inclined	0 - 18 dB
Output Level (-60dB IMD3) (1)	120 dBµV /75 Ohm
Output Level (CTB, -60dB, CENELEC 42ch) (2)	104 dBµV
Output Level (CSO, -60dB, CENELEC 42ch) (2)	103 dBµV
Output Level (XMOD, -60dB, CENELEC 42ch) (2)	100 dBµV
Hum Modulation	<-70 dBc
Noise Ratio	10 dB
Input / Output Reverse Way Loss (3)	12 dB
REVERSE	
Gain	16 dB
Gain Accuracy	+/-1 dB
Gain Adjustment	0....-20 dB
Output Level (-60dB IMD3) (1)	120 dBµV
Noise Ratio	6 dB
Input / Output Reverse Way Loss (3)	12 dB
GENERAL	
Power Supply	130-260 V (-%10,+%15) VAC
Power Consumption	20 W
Protection Class (3)	IP 66 dB
Connectors	F Tipi
Test Port	- 20 dB
Operating Temperature	-10°C to 55°C
Dimensions	270x 215x118 mm

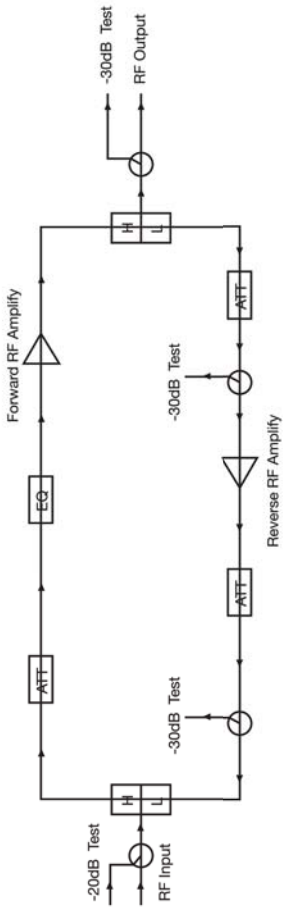


SHA 32
SHA 32R

TWO WAY TRANSMISSION DISTRIBUTION AMPLIFIER

SPECIFICATIONS
- Fixed output level; non linear, low noise feedback, micro-tube push pull circuits, low distortion, high signal ratio
- Changeable equalizer level (0~18dB) ve attenuator (0~15dB)
- Cast aluminium cover, high power switching anti-thunder system, Good working outdoor use.

THA series CATV amplifiers can use high performance by RF Push Pull technologies with high output power in middle and large scaled CATV systems



2 YEAR GUARANTEE

TECHNICAL SPECIFICATIONS		SHA 32	SHA 32 R
Bandwidth - Forward		47 - 870 MHz	87 - 870 MHz
Bandwidth - Return			5 - 65 MHz
FORWARD WAY			
Gain		30 dB	
Gain Flatness		±1 dB	
Output level		102 dBµV	
Output level (CTB)		≥ 65 dBµV	
Output level (CSO)		≥ 63 dBµV	
Noise Ratio		≤ 10 dB	
Loss Ratio		≥ 15 dB	
RETURN WAY			
Power Supply		165 V - 250 V / 24 Vdc - 8 W	
Power Consumption		178 x100 x 55 mm	
Dimensions			
GENERAL			THA 32 R
Gain			15 dB
Gain Flatness			± 0,75 dB
Output level			110 dBµV
Noise Ratio			≤ 12 dB
Loss Ratio			≥ 15 dB

SDM 2000

1 CHANNEL DSB MODULATOR
FULL BAND

2 YEAR GUARANTEE

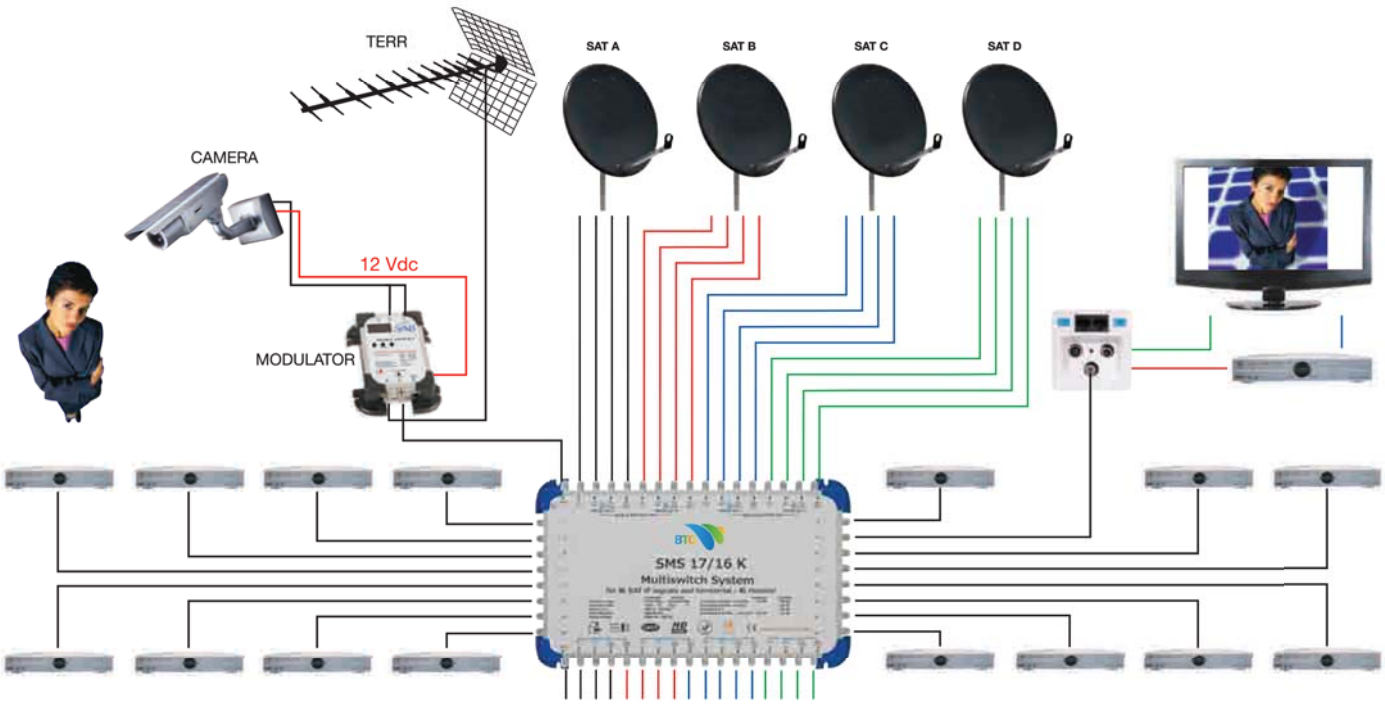
Applications

It can be used to transmit and distribute the images taken by a camera placed outside the building to the residents by using coaxial cable distribution. It can also be used in small scale TV distribution systems. Another application is to use as information channel or promotional channel in business centers or shopping malls. Thanks to its full band operation feature, it can be adapted to the existing systems and be adjusted not causing any confliction with terrestrial broadcasts received by air.

TECHNICAL SPECIFICATIONS	SDM 2000
Frequans Band (Full Band 119-850 MHz)	(VHF-S S02-S40) (VHF C05-C12) (UHF C21-C69)
Video Input Level	0,8 - 1 Vpp ± 0,2
RF Output Level	88 dBµV
RF Output Attenuator	-20 dB
RF Input - Output Connector	F-Typ
TV Standard	PAL-BG
Power Supply	220 Vac - 12 Vdc - 1A
Camera Output Voltage	12 Vdc - 500 mA
Dimensions	128x85x30 mm
Weight	320 g

APPLICATION EXAMPLES

GATE MONITORING BY MEANS OF CENTRAL DISTRIBUTION COAXIAL SYSTEM



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