

A SIMPLY
PERFECT
NETWORK.

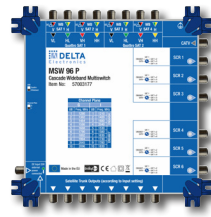
**SMATV &
TERRESTRIAL COMPONENTS**



Ed. 05.23



**YOU FIND THE APPROPRIATE MULTIMEDIA WALL OUTLETS
AND COAXIAL CABLE IN OUR PASSIVE MATERIAL CATALOGUE.**



	TYPE	DESCRIPTION	PAGE
Antenna	TEA/DSP/BST	Terrestrial Antennas/ Roof brackets/ Terrace racks	4
	SAT	Parabolic Offset Reflectors	5
	MFH	Special LNB-Mount	6
	UC	LNB's with Coaxial Outputs	6
	UCW	Wideband LNB	7
	NV/EWS	SAT-IF Inline Amplifier / Insertion Diplexer	7 / 8
	MBA	Terrestrial Multiband Amplifier	9
	SAT - OPTIC	OCH2	Optical Compact Headend System
SFC		Satellite Frequency Convertor	14
OTD		Optical Unicable Final Units	15
OQC		dSCR Multi Switch with optical Input	16
OFT-S		Optical FibreTwist SAT	18
OR AGC		Optical Receiver with AGC	20
OR		Optical Receiver	21
OMPC / SOV		Optical Cable / Optical Splitter	22
OA		Optical Accessories	23
Legacy		MSE-N	5-Cable Compact-Multiswitch
	MSE-K	5-Cable Cascade-Multiswitch - active terrestrial path	25
	MSE-KP	5-Cable Cascade-Multiswitch - passive terrestrial path	26
	NVS	5-Cable Amplifier	27
	MSE-KP	9-Cable Cascade-Multiswitch - passive terrestrial path	28
	NVS	9-Cable Amplifier	29
	MSE-N	17-Cable Compact-Multiswitch - active terrestrial path	30
	MSE-NP	17-Cable Compact-Multiswitch - passive terrestrial path	31
	MSE-K	17-Cable Cascade-Multiswitch - active terrestrial path	32
	MSE-KP	17-Cable Cascade-Multiswitch - passive terrestrial path	33
	NVS	17-Cable Amplifier	34
dSCR	MSU-K	Cascade-Multiswitch	35
	LUA	SCR-Multiswitch extension	36
Wideband	MSW	Ultra-Compact-Multiswitch	38
	MSW KP	Wideband-dSCR-Multiswitch	39
	MSW-P	Cascade-Multiswitch	40
Accessories	WBV	Amplifier	41
	WQA	Accessoires	42
	NT	Power Supply	43
Channel Processing	KAB	Headend	44
	KHE/KIP/KHI	Headend	46

TERRESTRIAL ANTENNAS

FM antennas for UHF/DVB-T range

Type	TEA 207	TEA 311	TEA 415 3D
			
Item No.	57002047	57000841	57002046
Description	directional antenna for UHF	Logarithmic antenna for DAB / DAB+	directional Yagi antenna with LTE Filter for DVB-T
Frequency range	MHz 87,5 - 108	174 - 230	470 - 790 (K21-60)
Gain	dB 7	10	11.5 ... 15.5
Angle of aperture	° 58	45 ... 55	22 ... 44
Wind load	N 88	25	21
Mast Ø	mm 60	60	60
Front to back ratio	dB 14	22	29
Length	mm 1700	1210	800
Weight	kg 1.7	1.5	0.85

FIXING ACCESSORIES

ROOF BRACKETS

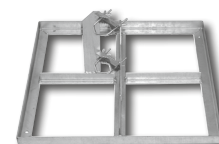
- For attaching antennas up to Ø 1.0 m
- Material: steel, hot dip galvanized
- High stability
- Flexible setting



Type	DSP 90	DSP 130
Item No.	57000751	57000752
Rafter distance up to	m 0.9	0.9
Length	m 0.9	1.3
Tube Ø	mm 48	48
Weight	kg ca. 5.4	ca. 6.5
For antennas up to Ø	m 1.0	1.0

TERRACE RACKS

- For attaching antenna masts
- Material: steel, hot dip galvanized



Type	BST 43
Item No.	57000748
For tubes up to	mm 60
For antennas up to Ø	m 1.0
Weight	kg 11
Fixing	4 stone stabs 30 x 30 cm

PARABOLIC OFFSET REFLECTORS

- || 10.7–12.75 GHz (KU Band)
- || High stability –
 - 40 mm die-cast feed mount (part of shipment) and
 - Mast holder with wing screws
- || Corrosion-resistant – Aluminium reflector, hot-dip galvanized mast bracket
- || Appealing design
 - available in three colors: white, graphite, brick red
 - integrated cable duct
 - Back bracket in reflector color
- || Also available in PU:10, bulk (On request)
- || Also available in heatable version (On request)



Type		SAT 75	SAT 85	SAT 100
Color / Item No.	white	57001277	57001280	
	graphite	57001278	57001281	57001284
	brick red	57001279	57001282	57001285
Reflector-Ø	m	0.75	0.85	1.0
Gain	dB	37.3	38.3	40
Half-value aperture	°	2.4	2.1	1.8
Mount for mast Ø	mm	40 - 80	40 - 80	40 - 80
Adjustment range, elevation	°	10 - 40	10 - 40	10 - 40
Wind load	N	480	600	800
Width x height	cm	75 x 80	85 x 90	94 x 101
Dimensions	cm	76 x 86 x 20	90 x 86 x 20	116 x 102 x 25
Weight	kg	7.0	11.0	11.5



High stability

- || Solid material profiles and hexagonal clamping nuts
- || One-piece construction of support arm and LNB mount
- || Wing nuts for assembly without tools

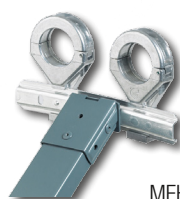


Protected cable duct

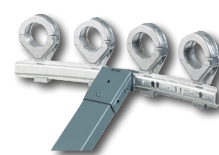
- || Secure and clean cabling on support arm

SPECIAL LNB-MOUNT

- || Rail system with additional feed adaptors Ø 40 mm for simultaneous reception of up to 4 satellites:
Min. angle distances:
SAT 75 / SAT 85: 6°
SAT 100: 4°
SAT 120: 3°
- || Easy mounting on all DELTA Electronics reflectors



MFH 2



MFH 4

Type	MFH 2	MFH 3	MFH 4
Description	Multifeed mount	Multifeed mount	Multifeed mount
Item No.	57001191	57001192	57001193
LNB fittings	2	3	4
Provided LNB fittings	1	2	3
Shift range	6	25	25
Weight	0.2 kg	0.4	0.5

LNB'S

- || Low Noise Block Converter for conversion of TV SAT transponders into the SAT-IF range (L-Band)
- || Waterproof die-cast housing and additional protection by outer plastic housing
- || Suitable for all standard feed mounts of 40 mm Ø
- || Low power consumption
- || Low noise and low distortion



Type	UC 21	UC 44	UC 44 S
Description	Single-LNB	Quattro-LNB	Quad-LNB
Item No.	57000881	57000885	57000886
Frequency range low-band	10.70 - 11.70 GHz	10.70 - 11.70 GHz	10.70 - 11.70 GHz
high-band	11.70 - 12.75 GHz	11.70 - 12.75 GHz	11.70 - 12.75 GHz
Gain	> 50 dB	> 50 dB	> 50 dB
Oscillator frequency	9.75 low 10.60 high	9.75 low 10.60 high	9.75 low 10.60 high
Polarization decoupling	25 dB	25 dB	25 dB
Switching voltage (H/V)	14 / 18 VDC	12...18 VDC	4 x 14 / 18 VDC
Band switching signals	0 / 22 kHz	–	4 x 0 / 22 kHz
Current consumption	130 mA	220 mA	220 mA
DC Input	12 - 20 V	12 - 20 V	12 - 20 V
Feed fitting	40 mm	40 mm	40 mm
Operating temperature	-40...+60 °C	-40...+60 °C	-40...+60 °C
Weight	0.38 kg	0.47 kg	0.47 kg

WIDEBAND LNB

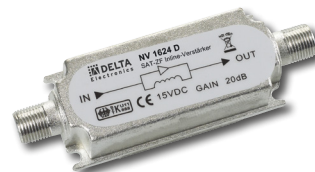
- Weatherproof cap extendable
- Very low noise figure
- Compact size



Type		UCW 12
Item No.		57003268
Inputs		1
Input frequency	MHz	10700...12750
Outputs		2 (H/V)
Output frequency	MHz	290...2340
LO frequency	MHz	10410
Conversion gain	dB	55
Noise figure	dB	0.7
Isolation	dB	25
Output power	dBm	-25
Power supply	VDC	9...20
Power consumption	mA	150
Operating temperature	°C	-40 ... + 60
LNB Installation dimensions	∅ mm	40
Dimensions	mm	90 x 80 x 40

SAT-IF INLINE AMPLIFIER

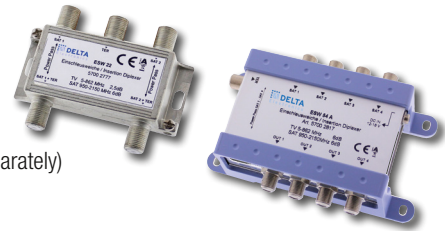
- Super wideband amplifier for terrestrial and SAT range
- Frequency range 47 up to 2300 MHz
- Remote feeding via coaxial RF connector
- DC-pass for LNB remote feeding
- Die-cast enclosure Class A
- Suitable for Unicable

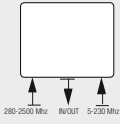
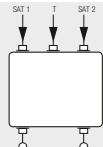
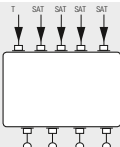
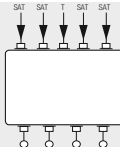
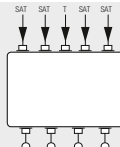


Type		NV 1624 D
Item No.		57002025
Frequency range	MHz	47 ... 2300
Inputs		1 (F)
Outputs		1 (F)
Gain 40 MHz	dB	16
Gain 950 / 1750 / 2300 MHz	dB	18 / 20 / 24
Output level: SAT 35 dB IMA ₃	dBμV	110
TERR 60 dB IMA ₃	dBμV	105
Remote feeding voltage	V	11 ... 20 (bi-directional)
Power consumption	mA	60
Dimensions	mm	45 x 24 x 24
Weight	kg	0.04

SAT-IF INSERTION DIPLEXER

- || To combine terrestrial/CATV- and SAT-IF signals
- || **SW 44/SW 54** For Quad-LNB
- || **ESW 54 A:**
For Quattro-LNB and Multiswitches
Socket jack for optional continuous feeding with power supply NT 18-1200 (please order separately)
- || **SWW 21:** Feed FM/DAB into wideband signals
- || Low through loss



Type	SWW 21	ESW 22	SW 44	SW 54	ESW 54 A
Item No.	57005340	57002777	57002892	57003907	57002817
					
Frequency range	MHz 5-230 280-2.500	5-862 950-2.150	5-862 950-2.150	5-862 950-2.150	47-862 950-2.150
Inputs	1 1	1 2	1 4	1 4	1 4
Outputs	1	2	4	4	4
Insertion loss (Ter active)	dB				4 ... 6 4 ... 6
Insertion loss (Ter passiv)	dB	3 ... 5	< 9	< 10	
Output level 60 dB IMA ₃	dBμV				88
Isolation SAT/TER	dB	> 30	≥ 30	> 30	
Power supply	-	-	-	by Receiver	by Receiver or through external power supply
Power Passing	max. 1 A	max. 1 A	max. 0,5 A	max. 0,5 A	max. 0,5 A
Power consumption	mA				< 50 (12...18 VDC)
Connectors	F female	F female	F female	F female	F female
Dimensions	mm 75 x 38 x 16	75 x 58 x 16	160 x 75 x 35	135 x 82 x 22	110 x 90 x 35
Weight	kg 0.056	0.075	0.224	0.27	0.3

discontinued

TERRESTRIAL MULTIBAND AMPLIFIER MBA 435 N



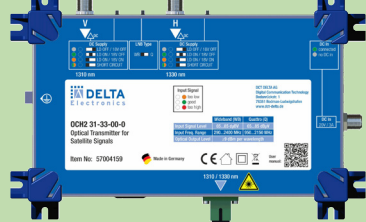







- Remote feeding voltage selectable (12 or 24V)
- UHF frequency range selectable (694 or 862 MHz)
- 4 selective inputs for low interference reception
- Seperate attenuation for each input
- High gain with low noise
- High output level
- Seperate test point with -30 dB



Type		Input 1 / UKW	Input 2 / VHF (DAB+)	Input 3 / UHF	Input 4 / UHF
Amplifier					
Item No		57004327			
Outputs		1 + 1 signal measurement (-30 dB)			
Frequency range	MHz	47...108	174...240	470...694/862	470...694/862
Gain	dB	10...30	10...30	15...35	15...35
Max. Input level	dB μ V	94	92	96	96
Max. Output level	dB μ V	118			
Remote feeding voltage	V	12V / 24V DC (100 mA max.)			
Power supply	W	6W (plus Remote power max. 23W)			
Dimensions	mm	221 x 107 x 54			
Operating temperature range	$^{\circ}$ C	-25 ... +60			
Power supply					
Input voltage	V	100-240 V AC, 50/60 Hz			
Others					
Dimensions	mm	217 x 165 x 59			
Weight	kg	0.8			

discontinued

OCH2 - SYSTEM OVERVIEW

<p>Aerial Reception</p>	 <p>Wideband LNB</p>			
<p>Signal Processing</p>	 <p>Satellite Signal Processor SFC 41-32</p>			
<p>Signal Conversion (RF to Optical)</p>	 <p>Transmitter OCH2 31-33-00-0</p>	 <p>Transmitter OCH2 31-33-55-0</p>		
<p>Signal Distribution</p>	 <p>SOV 4 SC</p>			
<p>Signal Conversion (Optical to RF)</p>	 <p>OR 15</p>	 <p>OR 25</p>	 <p>OR 25 AGC</p>	 <p>OR 35 AGC</p>
<p>Direct TV Signal Reception</p>	 <p>OTD 32-16</p>			

FM Aerial (DAB)



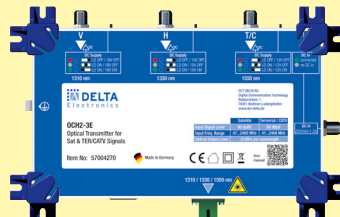
UHF Aerial (DVB-T)



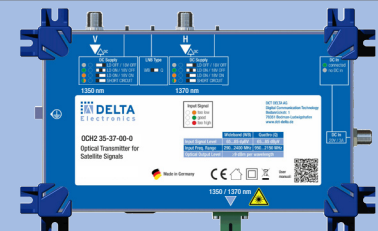
Terrestrial Multiband Amplifier MBA 435 N



Transmitter OCH2-2E



Transmitter OCH2-3E



Transmitter OCH2 35-37-00-0

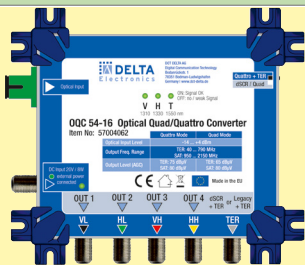


SOV 8 SC



SOV 16 SC

or any 19" optical splitter from DCT DELTA's OCP series



OQC 54-16 in Quattro Mode

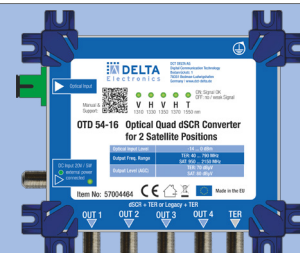


OR 55 AGC

- for 1 or 2 Satellite Positions
- only for 1 Satellite Position
- only for 2 Satellite Positions



OQC 54-16 in Quad Mode



OTD 54-16

OCH2 OPTICAL TRANSMITTER

- Optical multiple transmitter with 2 or 3 wavelengths 1310/1330/1550 nm
- High optical output level
- For optical distribution ratios until 1:128
- Optimized for wideband satellite signal input
- Integrated amplifier with AGC and ASC
- LTE filter at terrestrial input



Type	OCH2 31-33-00-0	OCH2 31-33-55-0	OCH2 35-37-55-0
Item No.	57004159	57004160	57004207
SAT-Inputs	2x Satellite (Wideband / Quattro) F type		
Frequency range	MHz	290-2340	
Min. Sat input level	dB μ V	65	
Max. Sat output level	dB μ V	85	
Automatic Gain Control	dB	15	
Automatic Slope Control	dB	-3 ... +12	
DC remote supply	V/mA	18 V / max. 400 mA	
Terrestrial Inputs		1x	
Frequency range	MHz	47-694 (Terrestrial) / 47-1218 (CATV)	
Min. input level	dB μ V	60	
Max. output level	dB μ V	80	
Automatic Level Control	dB	10	
Predefined Slope	dB	3 (TER), 5 (CATV)	
DC remote supply	V / mA	12 V / max. 200 mA	
Optical Outputs		1 (SC / APC)	
Optical power	dBm	≥ 9	≥ 8 per wavelength
Output wavelengths	nm	1310, 1330	1310, 1330, 1550
Optical Inputs			1 (SC / APC)
Input wavelengths	nm		1310, 1330
General		18 - 20 V / min. 1,0 A (F-Typ) depends on remote feed	
DC input			
Power consumption	W	6 W (plus remote feed max. 30 W)	8 W (plus remote feed max. 30 W)
Environmental temperature range	$^{\circ}$ C	-10...+50 (only for indoor use)	
Dimensions	mm	221 x 141 x 50	
Weight	g	510	525

Suitable power supply NT 20-1.2 F Item-No. 57004430 or NT 20-3.3 F Item-No. 57003401

OCH2-1E / -2E OPTISCHER SENDER

- Optical multiple transmitter with 2 or 3 wavelengths
- High optical output level
- For optical distribution ratios until 1:128
- Optimized for wideband satellite signal input
- Integrated amplifier
- LTE filter at terrestrial input



Typ	OCH2-1E-31	OCH2-1E-55	OCH2-2E
Item No.	57004579	57004527	57004269
SAT-Inputs BK/Wideband LNB suitable	1x SAT F-Typ		2x SAT F-Typ
Frequency range	MHz 50-2340		
Min. input level	dB μ V 65		
Max. output level	dB μ V 85		
DC remote supply	V/mA 18 V / max. 400 mA		
Optical inputs	1 (SC / APC)		
Optical power	dBm ≥ 9	dBm ≥ 9	dBm ≥ 9 pro Wellenlänge
Output wavelength	nm 1310	nm 1550	nm 1310 und 1330
General			
DC input	18 - 20 V / min. 1,0 A (F-Typ) je nach Fernspeisung		
Power consumption	W 5 W (zzgl. Fernspeisung max. 30 W)	W 6 W (zzgl. Fernspeisung max. 30 W)	
Environmental temperature range	°C -10...+50 (nur für Innenmontage)		
Dimensions	mm 221 x 141 x 50		
Weight	g 800		

Suitable power supply NT 20-1.2 F Item-No. 57004430 or NT 20-3.3 F Item-No. 57003401

SATELLITE FREQUENCY CONVERTOR

State-of-the-art IF-IF converter

- || programmable satellite IF converter
- || realtime AGC on all individual transponders
- || very easy and fast installation
- || extremely sharp filters
- || can be locked with a security code



Type		SFC 41-32
Item No.		57003961
Inputs		
Inputs		4 SAT (wideband/quattro/quad)
SAT Input Frequency range	MHz	290...2340
SAT Input level	dBμV	40-95
Outputs		
Outputs		1 main (SAT) + 1 test port (-30dB)
SAT Output Frequency range	MHz	290...2340
SAT output power (per transponder)	dBμV	112
SAT output power (35dB/IM3)	dB	132
SAT output level flatness	dB	<1
SAT output level adjustment	dB	70 , 83, (89...112)
Slope adjustment	dB	15
General		
SAT Gain	dB	>40
Number of transponders		32
Conversion		Yes (all 32 transponders)
Transponder Bandwidth	MHz	1 - 64 (per 1 MHz steps)
Selectivity	dB	35 (@ 1MHz)
Return Loss	dB	10
Auto tuning		Yes (incoming transponders are copied from input 1 to output)
ESD protection		All inputs
DC@ SAT input		13V / 18V / Bypass & 0/22kHz selectable by SW
DC Load current @ SAT input	mA	500
SD port		Yes (for copy configuration)
Operating temperature	°C	-5...+50
Power Consumption	W	7.5 ... 25 (depends on transponder load and output level)
Dimensions	mm	217 x 165 x 59
Weight	kg	0.8

OPTICAL UNICABLE FINAL UNITS

- || Designed for the use in combination with OCH2 optical transmitters
- || Excellent optical sensitivity
- || Automatic Legacy / dSCR recognition
- || Supports Unicable 1 and 2
- || Powered via RF outputs or separate power supply (NT 20-1.2F Item No. 57004430)
- || LED indication of optical signal & power supply
- || 16 User bands per output in dSCR mode



Type		OTD 32-16	OTD 52-16
Item-No.		57004064	57004343
Faser - Optik	Wavelengths	nm	1310,1330,1550
	Inputs		1
	Connector Type		SC / APC
	Optical Input Level	dBm	-14 ... 0
Terrestrial	Frequency Range	MHz	40...790
	Outputs* (Trunk)		1 (F-Type)
	Output Level (AGC)	dBμV	70
Sat	Frequency Range	MHz	950...2150
	Outputs (Trunk)		2 (F-Type)
	Output Level	dBμV	Legacy 70, dSCR 80 (AGC)
dSCR	dSCR Outputs		2 4
	Supported Output Modes		SCR + Legacy + DVB-T/DAB/FM
	SCR Channel Bandwidth	MHz	46
	SCR User Bands		16 per output EN 50494: 1210, 1420, 1680, 2040; EN 50607: 985, 1050, 1115, 1275, 1340, 1485, 1550, 1615, 1745, 1810, 1875, 1940
	SCR Standards (automatic Recognition)		BSkyB SCR CENELEC EN 50494, CENELEC EN 50607, Universal LNB Ton & Spannung
	DiSeqC Commands		DiSeqC konform
In general	DC Powering		Can be powered from the DC jack or from the SAT RF outputs (all F-type)
	Operation Indication		Green LED (front bottom left)
	Voltage		10 to 20 VDC from connected receivers or multiswitches, 11 to 20 VDC from power supply
	Max. Power Consumption	W	6
	DC via RF outputs		Yes (not on the terrestrial HF output)
	Shortage & Power On Diagnostics		Yes
	Earth Connector		1
	Operation Temperature Range	°C	-20...+50°C (for indoor mounting only)
	Dimensions	mm	164 x 142 x 50
	Weight	kg	0.4

Suitable power supply NT 20-1.2 ; Item-No. 57004430

OPTICAL QUATTRO / UNICABLE FINAL UNIT

- || One device covers multiple applications:
 - || Optic-Legacy Converter
 - || Optic-dSCR-Converter
 - || Optic-Quattro-Converter
- || Excellent optical sensitivity
- || Automatic Legacy / dSCR recognition.
- || Supports Unicable 1 and 2
- || Powered via RF outputs or separate power supply (NT 20-1.2F Item No. 57004430)
- || LED indication of optical signal & power supply
- || 16 User bands per output in dSCR mode



Type		OQC 54-16	
Item No.		57004062	
Optical	Wavelengths	nm	1310,1330,1550
	Inputs		1
	Connector Type		SC / APC
	Optical Input Level	dBm	-14 ... 0
Terrestrial	Frequency Range	MHz	40...790
	Outputs* (Trunk)		1 (F-Type)
	Output Level (AGC)	dBμV	Quad mode: 65 dBμV / Quattro mode 75 dBμV
Sat	F Frequency Range	MHz	950...-2150
	Outputs (Trunk)		4 (F-Type)
	Output Level	dBμV	Quad-Legacy: 70 / Quad-dSCR: 80 (AGC) / Quattro: 80 (AGC)
dSCR	dSCR Outputs		4 (Quad mode)
	Supported Output Modes		SCR + Legacy + DVB-T/DAB/FM
	SCR Channel Bandwidth	MHz	46
	SCR User Bands		16 per output EN 50494: 1210, 1420, 1680, 2040; EN 50607: 985, 1050, 1115, 1275, 1340, 1485, 1550, 1615, 1745, 1810, 1875, 1940
	SCR Standards (automatic Recognition)		BSkyB SCR CENELEC EN 50494, CENELEC EN 50607, Universal LNB Sound & Voltage
	DiSEqC Commands		DiSEqC compliant
In General	DC Powering		Can be powered from the DC jack or from the SAT RF outputs (all F-type)
	Operation Indication		Green LED (front bottom left)
	Voltage		10 to 20 VDC from connected receivers or multiswitches, 11 to 20 VDC from power supply
	Max. Power Consumption	W	8
	DC via RF outputs		Yes (not on the terrestrial HF output)
	Shortage & Power On Diagnostics		Yes
	Earth Connector		1
	Operation Temperature Range	°C	-20...+50°C (for indoor mounting only)
	Dimensions	mm	164 x 142 x 50
Weight	kg	0.48	

OPTICAL QUATTRO FINAL UNIT

- || Excellent optical sensitivity
- || Powered via RF outputs or separate power supply (NT 20-1.2F Item No. 57004430)
- || LED indication of optical signal & power supply



Type		OQC 34	OQC 34-2
Item-No.		57004462	57004463
Optical	Wavelengths	nm	1310, 1330, 1550
	Inputs		1
	Connector Type		SC / APC
	Optical Input Level	dBm	-14 ... 0
Terrestrial	Frequency Range	MHz	40...790
	Outputs (Trunk)		1 (F-Type)
	Output Level (AGC)	dB μ V	Quattro 65
Sat	F Frequency Range	MHz	950...2150
	Outputs (Trunk)		4 (F-Typ)
	Output Level	dB μ V	Quattro: 80 (AGC)
In General	DC Powering	Can be powered from the DC jack or from the SAT RF outputs (all F-type)	
	Operation Indication	Green LED (front bottom left)	
	Voltage	10 to 20 VDC from connected receivers or multiswitches, 11 to 20 VDC from power supply	
	Max. Power Consumption	W	8
	DC via RF outputs		Yes (not on the terrestrial HF output)
	Shortage & Power On Diagnostics		Yes
	Earth Connector		1
	Operation Temperature Range	°C	-20...+50°C (for indoor mounting only)
	Dimensions	mm	164 x 142 x 50
Weight	kg	0.48	

OPTICAL FIBERTWIST SAT

The new way of installation. Put on - Twist - Connect with TV and power supply - Ready !

The Fiberwist concept is very easy and safe, it enables the installation of the end devices by the user. The OFT S combines a dSCR Multiswitch with 6 or 10 User bands with an Optical-Transceiver.



- || Self-Installation dSCR Multiswitch
- || Attractive design - perfect for living-rooms
- || Ideal Satellite-Signal-Component for FTTH-cabling
- || Different bases available



Base for wall mounting - OFTU (Art.-No. 57003555)

Type	OFT S	OFT S 10
Item No.	57003762	57004011
Inputs TER		1
dSCR outputs		1
Input frequency range SAT	MHz	290...2340
Input frequency range TER	MHz	5...1006
User Bands (see table on page 18)	6	10 (UC 1 - 8)
Isolation	dB	28
Output level dSCR	dBμV	85
Gain	dB	30
Return loss	dB	12
CATV connector		F-connector
Optical wavelength	nm	1310 / 1330
Optical input	dBm	-12 ... +6
Ripple	dB	± 2 (5-8 MHz)
		± 1 (8-1218 MHz)
		± 2 (1218-2400 MHz)
Photo diode type		PIN
Optical connector		SC / APC
Operating temperature	°C	-20 ... +55
Safety class		IP 20
Power consumption	mA	480 @ 12 V (external power supply; included with delivery)
Dimensions	mm	110 x 110 x 45 (with base)
Weight	kg	0.4

Channel plan OFT-S 10

Channel	Unicable 2	Unicable 1
1	1284 MHz	1284 MHz
2	1352 MHz	1352 MHz
3	1420 MHz	1420 MHz
4	1484 MHz	1484 MHz
5	1586 MHz	
6	1632 MHz	1632 MHz
7	1680 MHz	1680 MHz
8	1748 MHz	
9	1790 MHz	1790 MHz
10	2040 MHz	2040 MHz

Channel plan OFT-S

Channel	Unicable 2	Unicable 1
1	1280 MHz	1280 MHz
2	1382 MHz	1382 MHz
3	1484 MHz	1484 MHz
4	1586 MHz	1586 MHz
5	1688 MHz	1688 MHz
6	1790 MHz	1790 MHz

OPTICAL RECEIVER WITH AGC

- Optical multiple Receiver with automatic gain control (AGC)
- LED-indication for signal receive
- Compact design
- DC Supply on all SAT outputs
- Wide range of optical input



Type	OR 15 AGC	OR 25 AGC	OR 35 AGC	OR 35-2 AGC	OR 55 AGC
Item-No.	57004586	57004211	57004212	57004466	57004465
Optical input	1				
RF outputs	1	2	3	3	5
Optical wavelengths	nm	1550	1310, 1330	1310, 1330, 1550	1310,1330,1350,1370,1550
Frequency range	MHz	5...2400			
Optical input level	dBm	-15 to + 4			
AGC RF output level	dB μ V	80			
Signal indication	Green LED per wavelength				
Return loss	dB	-10			
Optical connector	SC / APC				
RF connector	F-type female (75 Ohms)				
Power consumption	W	2	3		4
DC supply via RF outputs	V	12 to 20			
DC supply indication	Green LED				
Operation temperature range	$^{\circ}$ C	-20 to +55			
Dimensions	mm	40 x 125 x 50	40 x 125 x 50	60 x 125 x 50	100 x 125 x 50
Weight	kg	0.100	0.110	0.165	0.275

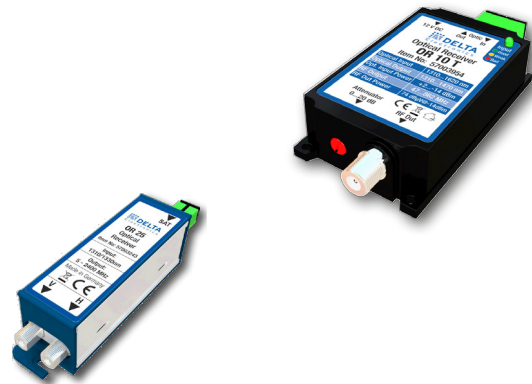
OPTICAL RECEIVER

OR 10 T

- || Converts one wavelength (1550 nm) into HF signal
- || Perfect addition for the MSW Multiswitches series of DELTA Electronics
- || Variable attenuator 0 to 20 dB
- || Including power adaptor

OR 25

- || Perfect match for the MSW Multiswitches series of DELTA Electronics
- || Perfect receiver for the Optical Compact Transmitter of DELTA Electronics
OCH2 31-33-00-0 (Item-No. 57004159)
OCH2 31-33-55-0 (Item-No. 57004160)



Type		OR 10 T	OR 25
Item No.		57003954	57003243
Description		Single Receiver	Twin Receiver
Optical wavelengths	nm	1550	1310 / 1330
Optical input power	dBm	≥ -12...+6	≥ -12...+6
RF output level	dBμV	74	74
Variable RF output attenuation	dB	0...20	
Frequency range	MHz	47...862	8...2400
Return loss	dB	-15	-15
Photo diode type		PIN	PIN
Power consumption	W	1.2	1.2
Optical connector		SC / APC	SC / APC
RF connectors		F-female	F-female
Operating temperature range	°C	-20...+55	-20...+55
Protection class		IP 20	IP 20
Dimensions	mm	115 x 50 x 25	128 x 32 x 36
Weight	kg	0.8	0.25

SC/APC PATCHCORDS

- || Optical Monomode fibreglass cable, PVC coated, in various lengths, Ø 3.0 mm
- || The cables are already preconfigured on both ends with SC/APC connectors
- || LSHZ (low smoke and halogen-free)
- || UV proofed
- || G657.A1-fibre (7,5 mm bending radius)
- || also armored versions available
- || other lengths on request

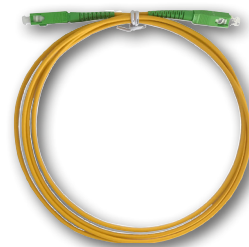
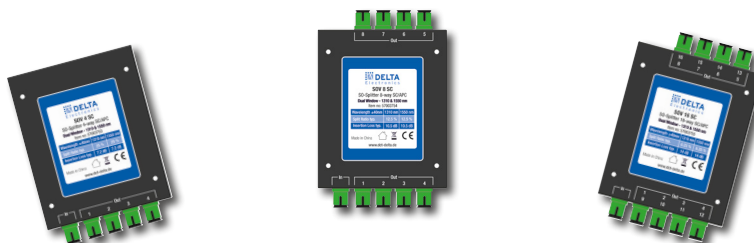


Illustration of an unarmored cable

Type	OMPC 02 SC-SC		OMPC 05 SC-SC	
Item No.	57000923		57003210	
Length	m	2	5	
Type	OMPC 40 SC-SC armored		OMPC 100 SC-SC armored	
Item No.	57004226		57004225	
Length	m	40	100	

OPTICAL SPLITTER



Type	SOV 4 SC		SOV 8 SC		SOV 16 SC	
Item No.	57003753		57003754		57003755	
Description	Optical Splitter 4-way		Optical Splitter 8-way		Optical Splitter 16-way	
Outputs	4		8		16	
Optical wavelength	nm	1310/1550	1310/1550		1310/1550	
Insertion loss	dB	7.2	10.5		14	
Split Ratio typ.	%	25	12.5		6.25	
Optical Input/Output	SC/APC		SC/APC		SC/APC	

OPTICAL ACCESSORIES

- || **Optical attenuator:** Ensures that the optical attenuation from the output of the optical transmitter to the input of the converter is maintained min 9 dB
SC/APC (male-female connector)
- || **Optical cable adaptors:** SC/APC socket on both sides
- || **Fibreglass rod** as insertion tool for fibre optic cables in empty tubes



Optical attenuators 1 db

Type	OATN-01 LC	OATN-01 SC
Item No.	57003757	57002674
Connector	LC / APC	SC / APC

Optical attenuators 3 db

Type	OATN-03 LC	OATN-03 SC
Item No.	57003665	57000910
Connector	LC / APC	SC / APC

Optical attenuators 5 db

Type	OATN-05 SC
Item No.	57004468
Connector	SC / PC

Optical attenuators 6 db

Type	OATN-06 LC	OATN-06 SC
Item No.	57003758	57000911
Connector	LC / APC	SC / APC

Optical attenuators 10 db

Type	OATN-10 SC	OATN-10 FC
Item No.	57000912	57001834
Connector	SC / APC	FC / PC

discontinued

Assembly aid

- || For Pulling fiber optic cables into conduits



Type	SO EZH
Item No.	57001836
Description	Fiber glass rod (insertion tool)

discontinued

LEGACY-SYSTEMS 5-CABLE COMPACT-MULTISWITCH

Stand alone switch with power supply for 6-32 subscribers

- || Active Input for terrestrial and CATV signals without return way
- || Metal housing with plastic side brackets
- || Temperature range 0°C...+55°C
- || Made in Germany



Type	MSE 506 N		MSE 508 N		MSE 512 N		
Item No.	57003299		57003300		57003301		
Frequency range	MHz	40...862	950...2400	40...862	950...2400	40...862	950...2400
Inputs		1	4	1	4	1	4
Outputs Receiver		6		8		12	
Gain	dB	-2	0...+5	-2	0...+5	-2	-1...+4
Return loss trunk line	dB	> 10		> 10		> 10	
Isolation:	SAT/SAT	30		30		30	
	SAT/TER	30		30		30	
Output level:	35 dB IMA ₃	101		101		101	
	60 dB IMA ₃	90		90		88	
Operating voltage	V~	90...264		90...264		90...264	
Power supply LNB	mA	max. 500		max. 500		max. 500	
Power consumption*	W	3.0		3.0		5.5	
Dimensions	mm	222 x 110 x 57		222 x 110 x 57		310 x 110 x 57	
Weight	kg	0.2		0.2		0.3	

*without LNB remote feeding

Type	MSE 516 N		MSE 524 N		MSE 532 N		
Item No.	57003302		57003303		57003304		
Frequency range	MHz	40...862	950...2400	40...862	950...2400	40...862	950...2400
Inputs		1	4	1	4	1	4
Outputs Receiver		16		24		32	
Gain	dB	-2	-1...+4	-2	-6...0	-2	-6...0
Return loss trunk line	dB	> 10		> 10		> 10	
Isolation:	SAT/SAT	30		30		30	
	SAT/TER	30		30		30	
Output level:	35 dB IMA ₃	101		101		101	
	60 dB IMA ₃	88		91		91	
Operating voltage	V~	90...264		90...264		90...264	
Power supply LNB	mA	max. 500		max. 500		max. 500	
Power consumption*	W	5.5		6.5		6.5	
Dimensions	mm	310 x 110 x 57		324 x 140 x 63		324 x 140 x 63	
Weight	kg	0.3		0.95		0.95	

*without LNB remote feeding

5-CABLE CASCADE-MULTISWITCH - ACTIVE TERRESTRIAL PATH

Compact Cascade switches with low power consumption

- || Terrestrial/CATV path active (no return channel)
- || Metal housing with plastic side brackets
- || Power supply by remote feeding through trunk lines or directly from the connected power supply unit *
- || Temperature range -20°C...+70°C
- || Made in Germany



Type		MSE 508 K		MSE 512 K		MSE 516 K	
Item No.		57003186		57003187		57003188	
Frequency range	MHz	40...862	950...2400	40...862	950...2400	40...862	950...2400
Inputs		1	4	1	4	1	4
Outputs receiver		8		12		16	
Outputs trunk line		1	4	1	4	1	4
Insertion loss	dB	0	-3...0	0	-4...-1	0	-4...-1
Through loss trunk line	dB	≤ -2	≤ -2	≤ -2	≤ -4	≤ -2	≤ -4
Return loss trunk line	dB	≥ 10		≥ 10		≥ 10	
Isolation:							
	SAT/SAT	30		30		30	
	SAT/TER	30		30		30	
Output level:							
	35 dB IMA ₃	101		101		101	
	60 dB IMA ₃	84		84		84	
Power consumption	mA	35 (from PSU) 110 (from STB)		35 (from PSU) 110 (from STB)		35 (from PSU) 110 (from STB)	
Dimensions	mm	140 x 140 x 63		220 x 140 x 63		220 x 140 x 63	
Weight	kg	0.3		0.5		0.5	

Type		MSE 524 K		MSE 532 K	
Item No.		57003189		57003190	
Frequency range	MHz	40...862	950...2400	40...862	950...2400
Inputs		1	4	1	4
Outputs receiver		24		32	
Outputs trunk line		1	4	1	4
Insertion loss	dB	-2	-6...0	-2	-6...0
Through loss trunk line	dB	≤ -2	≤ -6	≤ -2	≤ -6
Return loss trunk line	dB	≥ 10		≥ 10	
Isolation:					
	SAT/SAT	30		30	
	SAT/TER	30		30	
Output level:					
	35 dB IMA ₃	101		101	
	60 dB IMA ₃	91		91	
Power consumption	mA	29 (from PSU) 305 (from STB)		29 (from PSU) 305 (from STB)	
Dimensions	mm	240 x 140 x 63		240 x 140 x 63	
Weight	kg	0.6		0.6	

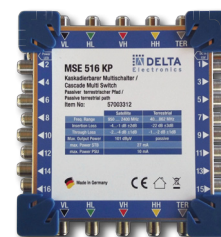
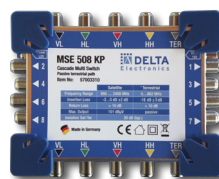
* On page 42 you will find the perfect power supply unit for these cascade multiswitches (NT 15-3.3; Item No. 57003223)

You will find the suitable cables, connectors and antenna sockets in our passive material catalogue

5-CABLE CASCADE-MULTISWITCH - PASSIVE TERRESTRIAL PATH

Compact Cascade switches with low power consumption

- || Terrestrial/CATV path passive for return path
- || Metal housing with plastic side brackets
- || Power supply by remote feeding through trunk lines or directly from the connected power supply unit *
- || Temperature range -20°C...+70°C
- || Made in Germany



Type	MSE 508 KP		MSE 516 KP			
Item No.	57003310		57003312			
Frequency range	MHz	5...862	950...2400	5...862	950...2400	
Inputs		1	4	1	4	
Outputs receiver		8		16		
Outputs trunk line		1	4	1	4	
Gain	dB	-18	-3...0	-22	-4...-1	
Through loss trunk line	dB	≤ -2	≤ -2	≤ -2	≤ -4	
Return loss trunk line	dB	> 10		> 10		
Isolation:	SAT/SAT	30		30		
	SAT/TER	30		30		
Output level:	35 dB IMA ₃	dBμV	passive	101	passive	101
Power consumption	mA	10 (from PSU) 25 (from STB)		10 (from PSU) 27 (from STB)		
Dimensions	mm	140 x 140 x 63		220 x 140 x 63		
Weight	kg	0.3		0.5		

Type	MSE 524 KP		MSE 532 KP			
Item No.	57003313		57003314			
Frequency range	MHz	5...862	950...2400	5...862	950...2400	
Inputs		1	4	1	4	
Outputs receiver		24		32		
Outputs trunk line		1	4	1	4	
Gain	dB	-33	-6...0	-33	-6...0	
Through loss trunk line	dB	≤ -2	≤ -6	≤ -2	≤ -6	
Return loss trunkline	dB	> 10		> 10		
Isolation:	SAT/SAT	30		30		
	SAT/TER	30		30		
Output level:	35 dB IMA ₃	dBμV	passive	101	passive	101
Power consumption	mA	10 (from PSU) 29 (from STB)		10 (from PSU) 29 (from STB)		
Dimensions	mm	240 x 140 x 63		240 x 140 x 63		
Weight	kg	0.6		0.6		

* On page 42 you will find the perfect power supply unit for these cascade multiswitches (NT 15-3.3; Item No. 57003223).

5-CABLE AMPLIFIER

Trunk line amplifier for 5-cable systems

- ▮ Adjustable gain
- ▮ Fixed slope (NVS 520)
- ▮ Adjustable slope (NVS 520 S)
- ▮ Flexible power supply by trunk lines or power supply unit
- ▮ Made in Germany



Type	NVS 520		NVS 530 S		
Item No.	57003267		57003369		
Description	launch / post amplifier		launch / post amplifier		
Frequency range	MHz	40...862	950...2200	40...862	950...2200
Inputs		1	4	1	4
Outputs		1	4	1	4
Gain	dB	20	20-24	30	27-30
Gain control	dB	15 (5...20)	15 (5...20)	15 (15...30)	15 (15...30)
Output level:					
SAT 35 dB IMA ₃	dBμV		116		118
TER 60 dB IMA ₃	dBμV	110		112	
Slope	dB	4		3	
Slope control	dB	-		7	
Return loss	dB	12		12	
Isolation: SAT/SAT	dB	> 30		> 30	
Power consumption *2	mA	220		300	
Operating temperature	°C	-20...+70		-20...+70	
Dimensions	mm	160 x 127 x 61		160 x 145 x 61	

*1 On page 42 you will find the perfect power supply unit for these amplifiers (NT 15-3.3; Item No. 57003223).

*2 without LNB remote feeding

9-CABLE CASCADE-MULTISWITCH - PASSIVE TERRESTRIAL PATH

Compact Cascade Switches with low power supply

- || Terrestrial / CATV-path passive for return path
- || Metal housing with plastic side brackets
- || Power supply by remote feeding through trunk lines or directly from the connected power supply unit *
- || Operating temperature -20°C...+70°C
- || Made in Germany



Type		MSE 908 KP		MSE 912 KP	
Item No.		57003320		57003321	
Frequency range	MHz	5...862	950...2400	5...862	950...2400
Inputs		1	8	1	8
Outputs receiver		8		12	
Outputs		1	8	1	8
Gain	dB	-26	0...+2	-30	-2...+2
Through loss	dB	≤ -2	≤ -1	≤ -2	≤ -2
Return loss trunk line	dB	> 10		> 10	
Isolation:					
	SAT/SAT	30		30	
	SAT/TER	30		30	
Output level:	35 dB IMA ₃	dBμV	passive 101	passive 105	
Power consumption	mA	70 (from PSU) 35 (from STB)		280 (from PSU) 35 (from STB)	
Dimensions	mm	124 x 198 x 63		185 x 198 x 63	
Weight	kg	0.6		0.75	

Type		MSE 932 KP	
Item No.		57003324	
Frequency range	MHz	5...862	950...2400
Inputs		1	8
Outputs receiver		32	
Outputs		1	8
Gain	dB	-32	-2...+2
Through loss	dB	≤ -3	≤ -2...-4
Return loss trunk line	dB	> 10	
Isolation:			
	SAT/SAT	30	
	SAT/TER	30	
Output level:	35 dB IMA ₃	dBμV	passive 105
Power consumption	mA	280 (from PSU) 35 (from STB)	
Dimensions	mm	302 x 198 x 63	
Weight	kg	1.1	

* On page 42 you will find the perfect power supply unit for these amplifiers (NT 15-3.3; Item No. 57003223).

9-CABLE AMPLIFIER

Launch- or Cascade amplifier for 9-cable systems

- ▣ Adjustable gain
- ▣ Fixed slope (NVS 920 and NVS 930)
- ▣ Flexible power supply by trunk lines or power supply unit
- ▣ Made in Germany



Type	NVS 920		NVS 930		
Item No.	57003271		57003325		
Description	launch / post amplifier		launch / post amplifier		
Frequency range	MHz	40...862	950...2200	40...862	950...2200
Inputs		1	8	1	4
Outputs		1	8	1	4
Gain	dB	20	20-24	30	27-30
Gain control	dB	15 (5...20)	15 (5...20)	15 (15...30)	15 (15...30)
Output level:					
SAT 35 dB IMA ₃	dBμV		116		118
TER 60 dB IMA ₃	dBμV	110		112	
Slope	dB	4		3	
Return loss	dB	12		12	
Isolation: SAT/SAT	dB	> 30		> 30	
Power supply *2	mA	420 @ 15 V		580 @ 15 V	
Operating temperature	°C	-20...+70		-20...+70	
Dimensions	mm	160 x 111 x 61		181 x 111 x 61	

*1 On page 42 you will find the perfect power supply unit for these amplifiers (NT 15-3.3; Item No. 57003223).

*2 without LNB remote feeding

17-CABLE COMPACT-MULTISWITCH - ACTIVE TERRESTRIAL PATH

Stand alone switch with power supply for 8-32 subscribers

- || For 4 Sat positions
- || Active Input for terrestrial and CATV signals without return way
- || Metal housing with plastic side brackets
- || Operating temperature range 0°C...+55°C
- || Made in Germany



Type	MSE 1708 N		MSE 1712 N		
Item No.	57003326		57003327		
Frequency range	MHz	40...862	950...2400	40...862	950...2400
Inputs		1	16	1	16
Outputs receiver		8		12	
Gain	dB	0	-4...0	0	-4...0
Return loss trunk line	dB	> 10		> 10	
Isolation:	SAT/SAT	30		30	
	SAT/TER	30		30	
Output level:	35 dB IMA ₃	105		105	
	60 dB IMA ₃	88		90	
Operating voltage	V~	90...264		90...264	
Power supply LNB	mA	max. 1500		max. 1500	
Power consumption*	W	6.5		5.5	
Dimensions	mm	272 x 286 x 63		272 x 288 x 63	
Weight	kg	1.25		1.3	

*without LNB remote feeding

Type	MSE 1716 N		MSE 1724 N		MSE 1732 N		
Item No.	57003328		57003329		57003330		
Frequency range	MHz	40...862	950...2400	40...862	950...2400	40...862	950...2400
Inputs		1	16	1	16	1	16
Outputs receiver		16		24		32	
Gain	dB	0	-4...0	0	-4...0	0	-4...0
Return loss trunk line	dB	> 10		> 10		> 10	
Isolation:	SAT/SAT	30		30		30	
	SAT/TER	30		30		30	
Output level:	35 dB IMA ₃	105		105		105	
	60 dB IMA ₃	90		90		90	
Operating voltage	V~	90...264		90...264		90...264	
Power supply LNB	mA	max. 1500		max. 1500		max. 1500	
Power consumption*	W	5.5		5.5		5.5	
Dimensions	mm	272 x 286 x 63		395 x 286 x 63		395 x 286 x 63	
Weight	kg	1.3		1.6		1.8	

*without LNB

17-CABLE COMPACT-MULTISWITCH - PASSIVE TERRESTRIAL PATH

Stand alone switch with power supply for 8-32 subscribers

- || For 4 Sat positions
- || Input for terrestrial or CATV signals with return path
- || Metal housing with plastic side brackets
- || Operating temperature range 0°C...+55°C
- || Made in Germany

Type		MSE 1724 NP	
Item No.		57003399	
Frequency range	MHz	5...862	950...2400
Inputs		1	16
Outputs receiver		24	
Gain	dB	-33	-4...0
Return loss trunk line	dB	> 10	
Isolation:	SAT/SAT	dB	30
	SAT/TER	dB	30
Output level:	35 dB IMA ₃	dBμV	105
	60 dB IMA ₃	dBμV	passive
Operating voltage	V~	90...264	
Power supply LNB	mA	max. 1500	
Power consumption*	W	max. 2	
Dimensions	mm	395 x 286 x 63	
Weight	kg	1.6	

*without LNB

17-CABLE CASCADE-MULTISWITCH - ACTIVE TERRESTRIAL PATH

Compact Cascade Switches with low power consumption

- || Input for terrestrial or CATV signals (no return channel)
- || Metal housing with plastic side brackets
- || Power supply by remote feeding through trunk lines or directly from the connected power supply unit *
- || Operating temperature range -20°C...+70°C
- || Made in Germany



Type		MSE 1708 K		MSE 1712 K	
Item No.		57003442		57003443	
Frequency range	MHz	40...862	950...2400	40...862	950...2400
Inputs		1	16	1	16
Outputs receiver		8		12	
Outputs trunk line		1	16	1	16
Gain	dB	0	-4...0	0	-4...0
Through loss	dB	≤ -3	≤ -2	≤ -3	≤ -4
Return loss trunk line	dB	> 10		> 10	
Isolation:					
SAT/SAT	dB	30		30	
SAT/TER	dB	30		30	
Output level: 35 dB IMA ₃	dBμV	88	105	90	105
Power consumption	mA	140 (from PSU) 49 (from STB)		180 (from PSU) 49 (from STB)	
Dimensions	mm	186 x 286 x 63		185 x 286 x 63	
Weight	kg	0.95		1.0	

Type		MSE 1716 K		MSE 1724 K		MSE 1732 K	
Item No.		57003444		57003445		57003446	
Frequency range	MHz	40...862	950...2400	40...862	950...2400	40...862	950...2400
Inputs		1	16	1	16	1	16
Outputs receiver		16		24		32	
Outputs trunk line		1	16	1	16	1	16
Gain	dB	0	-4...0	0	-4...0	0	-4...0
Through loss	dB	≤ -4	≤ -3	≤ -5	≤ -6	≤ -5	≤ -6
Return loss trunk line	dB	> 10		> 10		> 10	
Isolation:							
SAT/SAT	dB	30		30		30	
SAT/TER	dB	30		30		30	
Output level: 35 dB IMA ₃	dBμV	90	105	90	105	90	105
Power consumption	mA	180 (from PSU) 49 (from STB)		280 (from PSU) 49 (from STB)		280 (from PSU) 49 (from STB)	
Dimensions	mm	185 x 286 x 63		304 x 286 x 63		304 x 286 x 63	
Weight	kg	1.0		1.6		1.6	

* On page 42 you will find the perfect power supply unit for these cascade multiswitches (NT 15-3.3; Item No. 57003223).

You will find the suitable cables, connectors and antenna sockets in our passive material catalogue

17-CABLE CASCADE-MULTISWITCH - PASSIVE TERRESTRIAL PATH

Compact Cascade Switches with low power consumption

- || Input for terrestrial or CATV signals with return path
- || Metal housing with plastic side brackets
- || Power supply by remote feeding through trunk lines or directly from the connected power supply unit *
- || Operating temperature range -20°C...+70°C
- || Made in Germany



Type	MSE 1708 KP		MSE 1712 KP		
Item No.	57003331		57003332		
Frequency range	MHz	5...862	950...2400	5...862	950...2400
Inputs		1	16	1	16
Outputs receiver		8		12	
Outputs trunk line		1	16	1	16
Gain	dB	-27	-4...0	-27	-4...0
Through loss	dB	≤ -3	≤ -2	≤ -3	≤ -4
Return loss trunk line	dB	> 10		> 10	
Isolation:	SAT/SAT	30		30	
	SAT/TER	30		30	
Output level:	35 dB IMA ₃	passive		passive	
	dBμV	105		105	
Power consumption	mA	10 (from PSU) 49 (from STB)		10 (from PSU) 49 (from STB)	
Dimensions	mm	186 x 286 x 63		185 x 286 x 63	
Weight	kg	0.95		1.0	

Type	MSE 1716 KP		MSE 1724 KP		MSE 1732 KP		
Item No.	57003333		57003334		57003335		
Frequency range	MHz	5...862	950...2400	5...862	950...2400	5...862	950...2400
Inputs		1	16	1	16	1	16
Outputs receiver		16		24		32	
Outputs trunk line		1	16	1	16	1	16
Gain	dB	-27	-4...0	-33	-4...0	-33	-4...0
Through loss	dB	≤ -4	≤ -3	≤ -5	≤ -6	≤ -5	≤ -6
Return loss trunk line	dB	> 10		> 10		> 10	
Isolation:	SAT/SAT	30		30		30	
	SAT/TER	30		30		30	
Output level:	35 dB IMA ₃	passive		passive		passive	
	dBμV	105		105		105	
Power consumption	mA	10 (from PSU) 49 (from STB)		10 (from PSU) 49 (from STB)		10 (from PSU) 49 (from STB)	
Dimensions	mm	185 x 286 x 63		304 x 286 x 63		304 x 286 x 63	
Weight	kg	1.0		1.6		1.6	

* On page 42 you will find the perfect power supply unit for these cascade multiswitches (NT 15-3.3; Item No. 57003223).

17-CABLE AMPLIFIER

Launch- or cascade amplifier for 17-cable systems

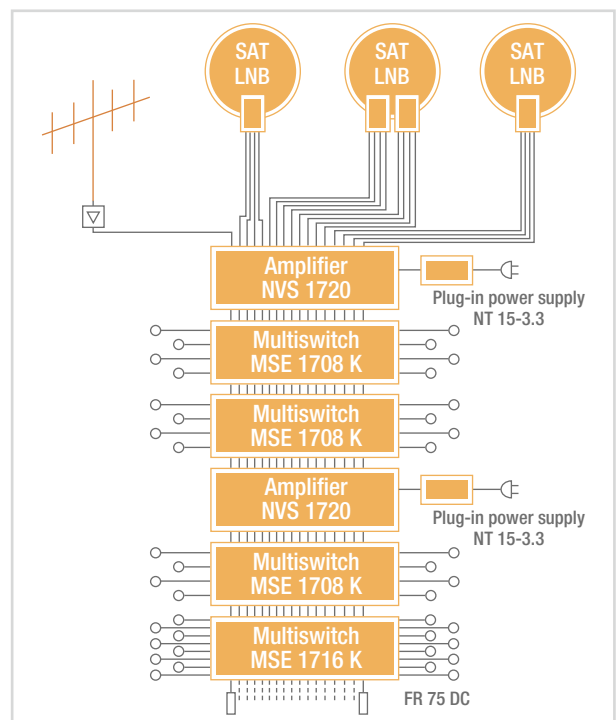
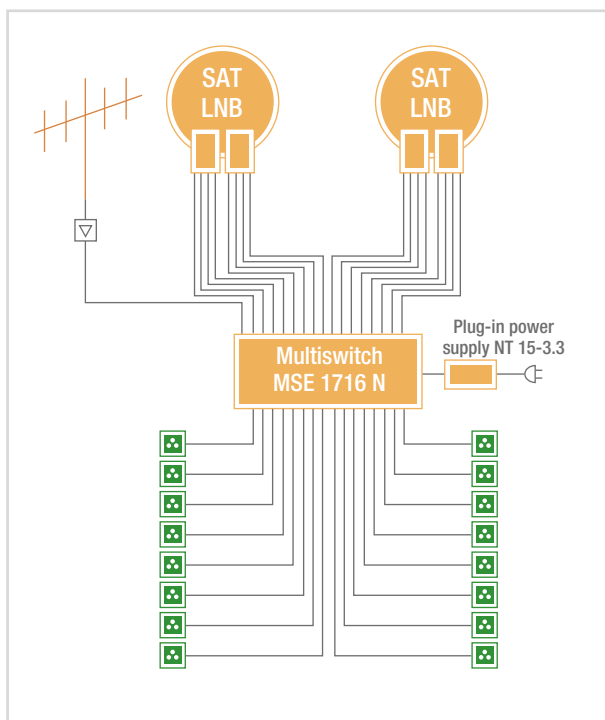
- || Fixed slope (NVS 1720)
- || Adjustable slope (NVS 1730)
- || Power supply unit optionally connectable (to be ordered separately *)
- || Adjustable gain
- || Flexible power supply by trunk lines or power supply unit



Type	NVS 1720		NVS 1730	
Item No.	57003370		57003371	
Description	launch / post amplifier		launch / post amplifier	
Frequency range	MHz	40...862 950...2200	40...862 950...2200	
Inputs		1 16	1 16	
Outputs		1 16	1 16	
Gain	dB	20 20-24	30 27-30	
Gain control	dB	15 (5...20) 15 (5...20)	15 (15...30) 15 (15...30)	
Output level:				
SAT 35 dB IMA ₃	dBμV	116		118
TER 60 dB IMA ₃	dBμV	110	112	
Slope	dB	4	3	
Return loss	dB	12	12	
Isolation: SAT/SAT	dB	> 30	> 30	
Power consumption* ²	mA	800 @ 15 V	1100 @ 15 V	
Operating temperature	°C	-20...+70	-20...+70	
Dimensions	m	160 x 247 x 61	160 x 247 x 61	

*¹ On page 42 you will find the perfect power supply unit for these amplifiers (NT 15-3.3; Item No. 57003223)

*² without LNB



|| Distribution network for 16 subscribers with a stand alone switch

|| Cascade system for up to 40 subscribers

dSCR-SYSTEMS

In comparison to existing technology, the new generation of SCR dSCR -Multiswitches (SCR = Satellite Channel Routing), also known as Unicable 2, offers substantial more frequency bands for more terminal devices / tuners.

Also the configuration of these systems has become much easier. With dSCR it is possible to pair the multiswitch with the terminal device automatically.

The significant reduced size of these new components makes installing a much simpler process.

Our dSCR Multiswitches are approved and released by SKY[®] for their Set-Top-Boxes.

Up to 16 frequency bands per output are available. Therefore these devices are well prepared for the future.

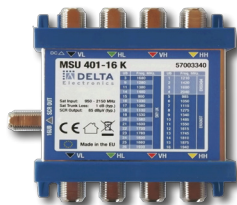
Further information can be found at



CASCADE-MULTISWITCH

SCR Multiswitch for up to 16 subscribers per output

- || Approved for all SCR Standards
- || Supports Unicable 1 (4 UBs) and Unicable 2 (12 UBs)
- || **SKY[®] approved**
- || Ultra-compact
- || Remote powered
- || Made in Europe



Type		MSU 401-16 K	MSU 402-16 K
Item No.		57003340	57003341
Frequency range SAT	MHz	950...2150	950...2150
Inputs		4	4
Through loss	dB	3	3
dSCR Outputs		1	2
Outputs trunk line		4	4
dSCR User bands per Output		16	16
Output level dSCR	dB μ V	85	85
Return loss	dB	≥ 8	≥ 8
Connectors		F female	F female
Power supply	mA	<300 mA @ 13 V	<320 mA @ 13 V
Dimensions	mm	90 x 80 x 40	90 x 80 x 40

* Power supply from externally with an external plug-in power supply (e.g. NT 20-1.2 F; Item No. 57004430) or by remote feeding through trunk lines.

UNICABLE ADD-ON

For extension of existing Legacy systems with Unicable

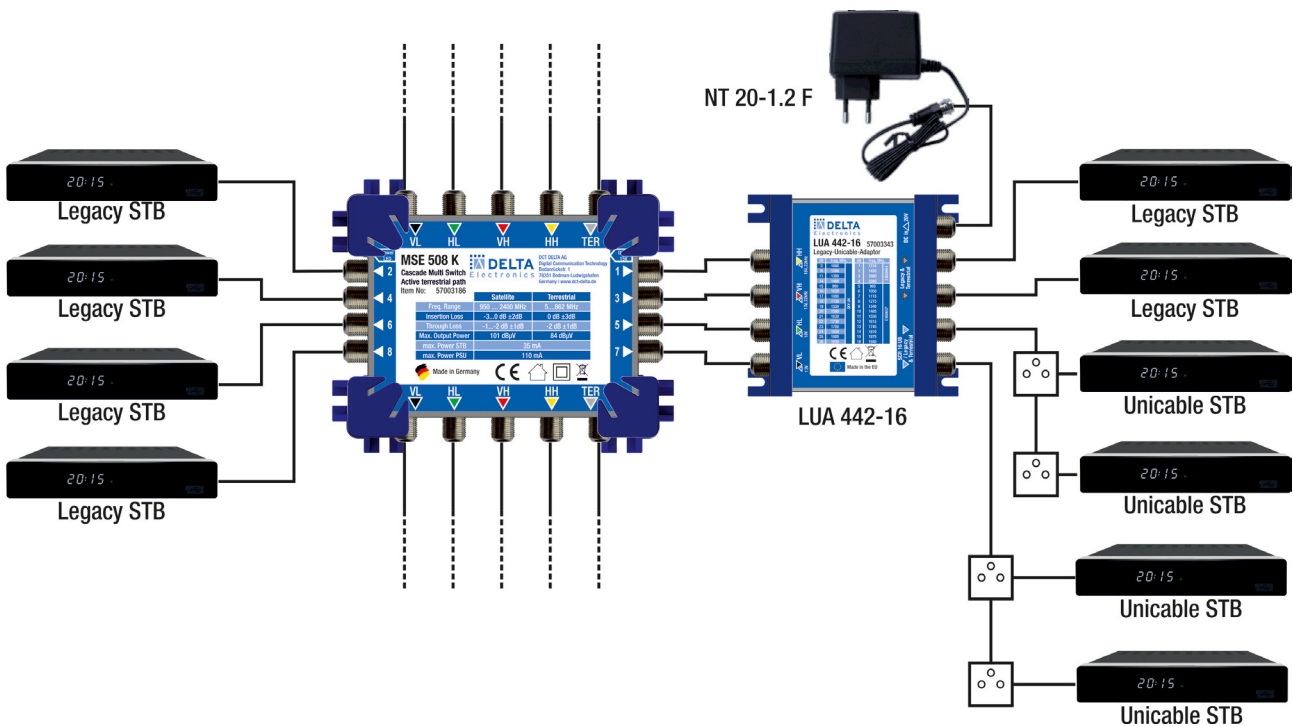
- || Legacy-Unicable-Adapter
- || Converts Legacy into Unicable signals
- || Allows Unicable for pure Legacy-System
- || All outputs remain unchanged
- || Compact housing
- || External power supply necessary *
- || Stand-Alone usable with Quattro signal



Type		LUA 442-16
Item No.		57003343
Inputs		4
Input frequency	MHz	5...2150
Outputs Legacy		4
Outputs dSCR		2 (in combination with Legacy output)
Output frequency	MHz	5...2150
Through loss	dB	-5
Output level	dBμV	85 (typ.)
User bands (dSCR Output)		16
Isolation	dB	> 35
Power consumption	W	< 5
Input voltage	VDC	10...20
Dimensions	mm	87 x 83 x 40

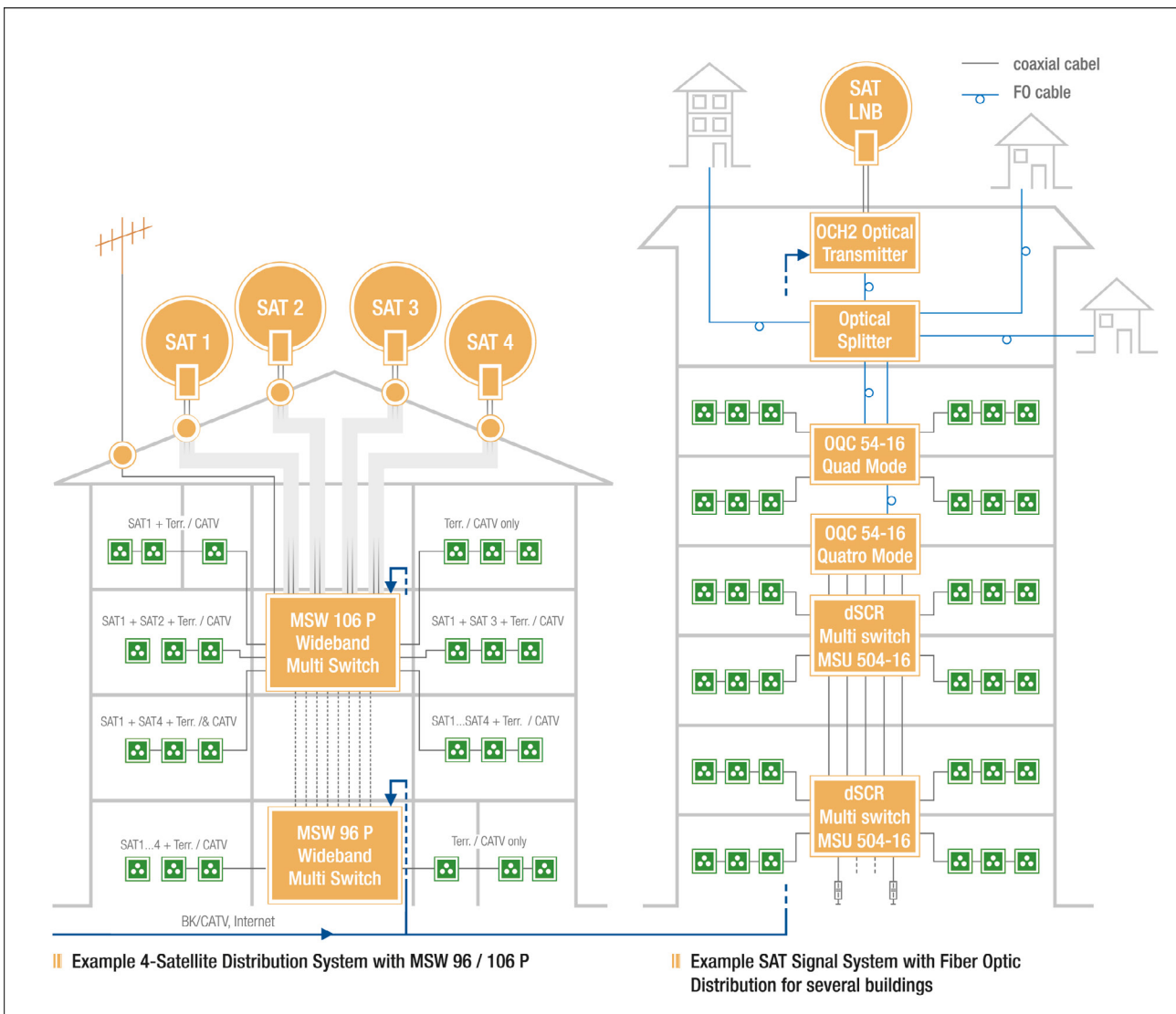
* Power supply from externally with an external plug-in power supply (e.g. NT 20-1.2 F; Item No. 57004430) or by remote feeding through User Band outputs.

Application Example



Preset User bands frequency table for MSU xxx-16 K and LUA 442-16

UB	EN 50607 (Unicable 2)	EN 50494 (Unicable 1)
0		1210 MHz
1		1420 MHz
2		1680 MHz
3		2040 MHz
4	985 MHz	
5	1050 MHz	
6	1115 MHz	
7	1275 MHz	
8	1340 MHz	
9	1485 MHz	
10	1550 MHz	
11	1615 MHz	
12	1745 MHz	
13	1810 MHz	
14	1875 MHz	
15	1940 MHz	



WIDEBAND-SYSTEMS

Wideband Satellite Receiving Systems are characterized by the fact, that there is only one band with extended frequency range of 290-2340 MHz needed per polarization.

By using the Wideband-Technology you can realize systems with more Satellite positions with significantly less requirement for space and wiring. Also the conversion from 2 into 4 Satellite positions is possible without further wiring effort.

To be also prepared for the new 1.2 GHz Cable-TV-Technology the user bands start above 1280 MHz.

We are focussing on quality from Europe similar to the Legacy-Switches.

The Multiswitched are more compact due to Wideband.

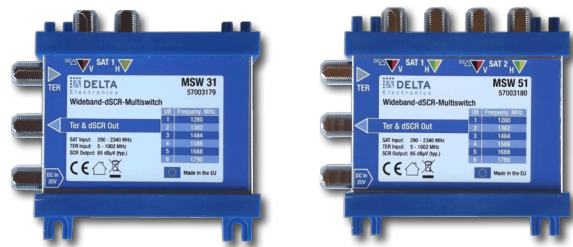
Further information can be found at



ULTRA-COMPACT-MULTISWITCH

Wideband Multiswitch

- || For selection of one or two satellite positions with Wideband LNB (L.O. 10,41 GHz) directly or in combination with O/E Converter OR-25
- || 6 User bands
- || External power supply *
- || Passive terrestrial input - with return path



Type	MSW 31		MSW 51	
Item No.	57003179		57003180	
Inputs SAT	2		4	
Inputs TER	1		1	
dSCR Outputs	1		1	
Frequency range SAT	MHz	290...2340		
Frequency range TER	MHz	5...1006		
User bands		6		
Isolation	dB	28		
Output level dSCR	dB μ V	82 (at 55-90 dB μ V Input Power)		
Gain	dB	30		
Return loss	dB	12		
Connectors		F female		
Power supply	mA	165 @ 13 V		230 @ 13 V
Dimensions	mm	92 x 77 x 20.5		

* Power supply from externally via DC-Input (F female). For example NT-20-3.3 F (Item No. 57003401)

MSW 502-16 KP - WIDEBAND-DSCR-MULTISWITCH

Big performance and small dimensions - State-of-the-Art Legacy/dSCR multiswitch

The MSW 502-16 KP has been designed for installations with a small or medium number of subscribers. This device can also be used to change an existing one-satellite installation into a two-satellite installation.

For single installations - where the LNB is connected directly - we recommend the power supply NT 20-1.2 F (Item no.: 57004430), for cascade installations - if necessary in combination with a power inserter - the power supply NT 20-3.3 F (Item no.: 57003401).

- || Automatic Legacy / dSCR recognition.
- || Supports Unicable 1 and 2
- || Powered via RF outputs (STB or power inserter)
- || Input signal selectable (Quattro / Wideband)
- || 16 User bands per output in dSCR mode
- || Compact design



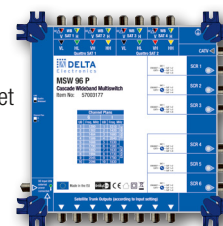
Type		MSW 502-16 KP
Item No.		57004069
SAT		
Input frequency range	MHz	290...2340
Subscriber frequency range	MHz	950...2150
Inputs		4 (F-Typ)
Outputs (trunk)		4 (F-Typ)
Through loss	dB	2.5
Return loss	dB	> 8 (typical 12)
Terrestrial		
Input frequency range	MHz	5...862
Inputs		1 (F-Typ)
Outputs* (Trunk)		1 (F-Typ)
Through Loss	dB	11
Legacy / dSCR Outputs		
dSCR Outputs		2 (F-Typ)
Supported Output Modes		SCR + Legacy + DVB-T/DAB/FM
SCR Channel Bandwidth	MHz	46
dSCR output power/ subscriber output	dBµV	Min. 85 (typical 87 (AGC))
SCR User Bands		16 per output
SCR Standards (automatic Recognition)		EN 50494: 1210, 1420, 1680, 2040; EN 50607: 985, 1050, 1115, 1275, 1340, 1485, 1550, 1615, 1745, 1810, 1875, 1940 BSkyB SCR CENELEC EN 50494, CENELEC EN 50607, Universal LNB Ton & Spannung
DiSEqC Commands		DiSEqC conform
Power Supply		
DC Powering		Can be powered through the trunk lines or the subscriber outputs. A power inserter is needed to connect an external power supply
DC Powering		10 to 20 VDC from connected receivers or TV 11 to 20 VDC through trunk line
Max. Power Consumption	W	5
DC via RF outputs		Yes (not on terrestrial RF output)
Operation Temperature Range	°C	-20...+50°C (indoor use only)
Dimensions	mm	92 x 88 x 39
Weight	kg	0.17

* Unused outputs have to be terminated with a DC blocked 75 Ohms terminator

CASCADE-MULTISWITCH

MSW 96 P

- || Applicable for 4 satellite positions with Wideband-LNB's or 2 satellite positions with Quattro LNB's
- || Signal selection for each output
- || 10 User-Bands per Output
- || CATV-Input with return path
- || Perfect choice for combination of satellite-TV and internet connection via CATV operator
- || User-band-table switchable (Germany / Italy)
- || Operating temperature range -20°C...+50°C



Type		MSW 96 P
Item No.		57003177
Inputs SAT		8
Frequency range SAT	dBμV	63 ... 105
Inputs TER		1
dSCR Outputs		6
dSCR channel power	dBμV	87
Frequency range SAT	MHz	290 ... 2340
Frequency range TER /CATV	MHz	5...1218
Return loss	dB	10
Insertion loss	dB	2
SAT output loss	dB	-12
TER output loss	dB	-20
Isolation:	dB	30
Power consumption	W	24
Dimensions	mm	220 x 221 x 50

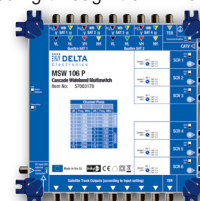
discontinued

Replaced by
MSW 106 P - 57003178

Power supply from externally with an external plug-in power supply (NT 20-3.3 F; Item No. 57003401) or by remote feeding through trunk lines.

MSW 106 P

- || Same features as MSW 9x P but additional
- || Terrestrial input with switchable amplifier



Type		MSW 106 P
Item No.		57003178
Inputs SAT		8
Frequency range SAT	dBμV	63 ... 105
Inputs TER		1
Inputs CATV		1
dSCR Outputs		6
dSCR channel power	dBμV	87
Frequency range SAT	MHz	290...2340
Frequency range TER	MHz	5...862
Frequency range CATV	MHz	5...1218
Return loss	dB	10
Insertion loss	dB	2
SAT output loss	dB	-12
TER output loss	dB	active: -8...-11 / passive: -20...-23
CATV output loss	dB	-12...-13
Isolation	dB	30
Power consumption	W	26
Dimensions	mm	220 x 221 x 50

Power supply from externally with an external plug-in power supply (e.g. NT 20-3.3 F; Item No. 57003401) or by remote feeding through trunk lines.

AMPLIFIER

- || Separate adjustment of gain and slope for each input
- || AGC & ASC (WBV 220 Pro)
- || Plug'n'Play (WBV 220 Pro)
- || Output level selectable (WBV 220 Pro)
- || Two trunk lines
- || Remote or direct powered *



Type	WBV 230		WBV 220 Pro	
Item No.	57003181		57004068	
Inputs SAT	2		2	
Frequency range SAT	MHz	290...2340	290...2340	
Outputs trunk line	2		2	
Input level	dB μ V	57-77	50-70	57-77
Output level	dB μ V	110	70 (AGC regulated)	77 (AGC regulated)
Gain	dB	30	15	
Slope control	dB	manuell (0...15)	15 (ASC)	
Gain adjustment range	dB	15...30	20 (ASC)	
Power consumption	mA	150 @ 20 V	150 @ 20 V	
Operating temperature	$^{\circ}$ C	-25...+60	-25...+60	
Dimensions	mm	115 x 130 x 50	115 x 130 x 50	
Weight	g	0.235	0.235	

* Power supply from externally with an external plug-in power supply (e.g. NT 20-1.2F Item No. 57004430) or by remote feeding through trunk lines.

ACCESSOIRES

Wideband - Quattro Adapter

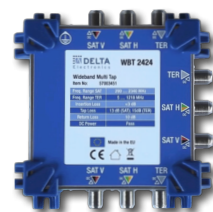
- For conversion of a wideband LNB (L.O. 10,41 GHz) to conventional Quattro inputs
- Extension of existing installations from one into two satellite positions without new wiring
- Compact version
- Remote powered from Quattro Inputs



Type	WQA 24	
Item No.	57003355	
Inputs	2	
Input frequency	MHz	290...2340
Outputs	4	
Output frequency	MHz	950...2150
Conversion gain	dB	0
Input power	dBμV	54...84
Isolation	dB	26
Power consumption	mA	150 @ 20 V
Input voltage	VDC	10...20
Dimensions	mm	90 x 80 x 40

Wideband Multi Splitter / Taps

- WBS splits the signal equally on both outputs
- WBT distributes a part of the signal to the outputs and attenuates the signal less than a splitter
- Low insertion loss
- DC power pass on all outputs



Type	WBS 2424		WBT 2424	
Item No.	57003450		57003451	
Frequency range SAT	MHz	290...2340	290...2340	
Frequency range TER	MHz	5...862	5...862	
Insertion loss	dB	5 (SAT) 4 (TER)	11 (SAT) 13 (TER)	
Through loss	dB	2 (SAT) 2 (TER)		
Tap loss	dB		13	
Return loss	dB	12		12
Dimensions	mm	129 x 129 x 51		129 x 129 x 51

POWER SUPPLY

The power supplies, used in signal distribution systems, are exposed to significant tougher environments as the usual power supplies for indoor use. There are higher temperatures at rooftop installations than in the living area.

For ensuring an undisturbed continuous operation, we offer specially developed power supplies for these circumstances.

Also first priority is Quality „Made in Germany“ and „Made in Europe“.

The operational performance of the new power supplies is designed in a way, that several amplifiers can be operated with only one power supply (number is depending on the version of amplifier).

UNIVERSAL POWER SUPPLY

Power Supply for MSU P series

Power Supply Unit for MSU P and NVS 510 DC amplifier

NT 15-3.3

Power Supply Unit for MSE xxx N/K/KP and NVS 520/530/920/930/1720/1730

NT 20-1.2 F / NT 20-3.3 F

Power Supply for OCH2, OTD, OQC, MSW and WBV



Type		NT 18-1.2 F	NT 20-1.2 F	MSU NT
Item No.		57004312	57004430	57002173
Operating voltage	50/60 Hz V~	100 ... 240 / Euro plug	100 ... 240 / Euro plug	100 ... 240 / Euro plug
Output voltage	V	18 / stabilized	20 / stabilized	15 / stabilized
Output current max	mA	1.000	1.200	2.400
Connectors		F-male	F-male	5.5 / 2.1mm barrel plug
Dimensions	mm	95 x 85 x 45	95 x 85 x 45	180 x 120 x 45
Weight	kg	0.19	0.19	0.35
MTBF	h	40.000	40.000	40.000

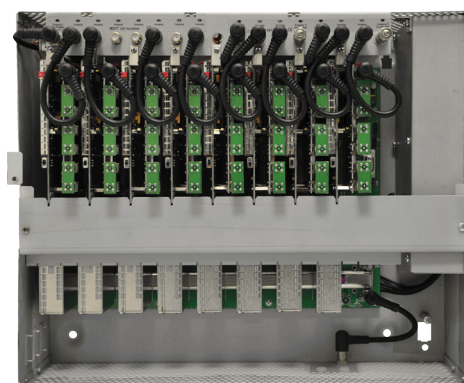


Type		NT 15-3.3	NT 20-3.3 F	dSCR Power Inserter
Item No.		57003223	57003401	57003782
Input		100...240 VAC / 50...60 Hz	100...240 VAC / 50...60 Hz	12..20 VDC
Output voltage	V	15 / stabilized	20 / stabilized	-
Output current max	mA	3.300	3.250	1.000
Efficiency level		IV	IV	-
DC-Plug		5.5 / 2.1 barrel plug	F-male	F-female
Dimensions	mm	150 x 50 x 30	115 x 55 x 35	50 x 50 x 30
Weight	kg	0.28	0.35	0.1
MTBF	h	40.000	60.000	-

HEADEND KAB 4000

KAB 4000 – Headend Basic Unit

- || 8 or 4 slots for Quattro- and Twin-modules
- || Processing of up to 16 channels or 32 transponders
- || Collector of the headend 8-way (4-way) active 47-862 MHz integrated, suitable for adjacent channels
- || Programming via PC or tablet
- || Modulators separately adjustable
- || Compact, appealing design
- || Easy and reliable operation
- || Energy efficient, reliable power supply unit



Type	KAB 4000 Basic Unit	
Item No.	57002878	57002156
Description	KAB 4000 B4	KAB 4000 B8
Possible Modulations	<ul style="list-style-type: none"> • DVB-S/S2/T/T2/C in QAM or COFDM • DVB-S in QAM or PAL • HDMI in QAM or COFDM • AV in QAM, COFDM or RF-output channel • COFDM in PAL • HDMI & AV in QAM or COFDM • Audio in TV mode 	
Software-Update	RS 232-Interface, fast update by software multiupdate	
Frequency range input (SAT)	950-2.150 MHz	
LNB-power / max. current	12 V / 0.25 A at each input, max. 0.5A	
Output level	analogue 106 dBµV; digital 103dBµV	
Test- / Measuring output	-20 dB	
Power supply	180 - 265 V AC	
Power input		max. 180 W
Weight	5 kg	9 kg
Dimensions (W x L X D)	265 x 370 x 170 mm	440 (19") x 370 x 170 mm

Plug-In Modules

- || Conversion:
 - HDMI in QAM-HD

Type	KAB 411 Q	KAB 421 Q	KAB 465
Modulation	HDMI in QAM, MPEG4	Twin: 2xHDMI in QAM, MPEG4	Quattro: 4xHDMI in QAM, MPEG4
Item No.	57003637	57003567	57003553
Bandwith	MHz	4-8 MHz	
Output symbol rate	MSym	1.0-7.-5	
Compression		H 264 Bitrate 5-15 Mb/s	
Output frequency	MHz	47-862	
Output level at 75 Ohm	dBµV	80-100	
Power input	W	12	15

Plug-In Modules

- II Conversion:
 - DVB-S/S2 in QAM-HD

Type		KAB 422
Item No.		57002881
Modulation		4xDVB-S/S2 in 4xQAM, 1 CI
Input level	dB μ V	55-80
Input symbol rate	MS/s	max. 30
Common Interface		1x
DBV-S2 modulation		QPSK, 8PSK
Power input	W	ca.16
Output level at 75 Ohm	dB μ V	80-100

further modules for DVB-T in QAM on request

Plug-In Modules

- II Conversion:
 - DVB-S/S2 in COFDM/2K

Type		KAB 442
Modulation		57002883
Item No.		4xDVB-S/S2 in COFDM-HD, 1 CI
Input level	dB μ V	50-75
Input symbol rate	MS/s	max. 30
Common Interface		1x
DBV-S2 modulation		QPSK, 8PSK
Power input	W	ca.13
Output level at 75 Ohm	dB μ V	83-103

Accessories

Type	KAB 4000 C	KAB 4000 - W
Item No.	57002915	57002893
Description	8.1 Windows Tablet for programming of KAB 4000	19" brackets for KAB 4000 B8

HEADEND KHE 5016 | KHE 5016 CI

19"-Headend device with 8/16x DVB-S/S2/S2x/DVB-C/DVB-T/T2 to 8/16x DVB-C or DVB-T

- || 8/16 independent multituner inputs, convert 8/16 × DVB-S/S2/S2X/T/T2/C into 8/16 × DVB-C or DVB-T channels, modulation at output is configurable
- || Remux | Crossmultiplex
- || NIT-editing option and PID-Filtering
- || Interface for CASimulcrypt Server (software extension necessary)
- || SNMPv1 and SNMPv2c interface
- || For wall mounting or as 19"-RU available
- || Decryption of encrypted program packages via CA-modules (also High-Speed-modules) possible,
- || Flexible and efficient assignment of programs into CA-modules



Typ		KHE 5008 CI	KHE 5016	KHE 5016 CI
Item-No.		57004706	57004523	57004524
Number of tuners		8		16
Common Interface-slots		6	0	6
Inputs for satellite signals				
Modulation		QPSK / 8PSK / 8APSK / 16APSK / 32APSK		
Frequency range	MHz	900...2150		
Level	dBμV	43...84		
Symbol rates	MS/s	1.5...45 (<40 in 32APSK)		
Input for terrestrial CATV-inputs				
Modulation		DVB-C/T/T2		
Frequency range DVB-T/T2	MHz	47 - 862		
Frequency range DVB-C	MHz	47 - 1006+		
Level DVB-T/T-2	dBμV	39 - 84; bandwidth 5/6/7/8 MHz		
Level DVB-C	dBμV	49 - 84		
Outputs				
Number of modulators		8		16
Modulation		DVB-C or DVB-T		
Frequency range DVB-T	MHz	109 - 862 (S2 - K69)		
Frequency range DVB-C	MHz	109 - 1006 (S2 - K69)		
Level DVB-T, adjustable	dBμV	77 - 97		
Level DVB-C, adjustable	dBμV	80 - 100		
In general				
Power supply	V AC	100 - 240		
Power input	W	50 (50-60 Hz)		60 (50 - 60 Hz)
Operating temperature	°C	-10 ... +50		
Weight	kg	2.8		3.15
Dimensions	mm	480 x 43 x 275 (19", 1 HE)		

HEADEND KIP 5016 | KIP 5016 CI - IPTV STREAMER

19"-Headend device with 16x DVB-S/S2/S2x/DVB-C/DVB-T/T2 into 512 SPTS- or 16 MPTS- streams

- 16 independent multituner inputs, converts 16 × DVB-S/S2/S2X/T/T2/C into 512 SPTS- or 16 MPTS- streams
- One GbE-Interface with max. 900 Mbps
- Web-based configuration
- SNMPv1 and SNMPv2c interface
- M3U-Playlist for TV-/Radio-programs
- Interface for CASimulcrypt Server (software extension necessary)
- Class A in accordance EN 50083-2 possible
- 19" housing, 1RU
- Two redundant power supplies (hot pluggable)
- Decryption of encrypted program packages via CA-modules (also High-Speed-modules) possible,
- Flexible and efficient assignment of programs into CA-modules



Type	KIP 5016		KIP 5016 CI	
Item-No.	57004525		57004526	
Number of tuners	16		16	
Common Interface-slots	0		6	
Inputs for satellite signals				
Modulation	QPSK / 8PSK / 8APSK / 16APSK / 32APSK			
Frequency range	MHz	900...2150		
Level	dBμV	43...84		
Symbol rates	MS/s	1,5...45 (<40 in 32APSK)		
Inputs for terrestrial CATV-inputs				
Modulation	DVB-C/T/T2			
Frequency range DVB-T/T2	MHz	47 - 862		
Frequency range DVB-C	MHz	47 - 1006+		
Level DVB-T/T-2	dBμV	39 - 84; bandwidth 5/6/7/8 MHz		
Level DVB-C	dBμV	49 - 84		
Outputs				
Data interface IPTV	1x RJ45, IEEE 802.3, 1000 Gase-T/1GbE			
Total net datarate	Mbps	800		
Datarate per tuner	Mbps	125		
Streams SPTS / MPTS	512/16			
Supported protocols	UDP, RTP			
In general				
Power supply	V AC	100 - 240		
Power input	W	60 (50 - 60 Hz)		
Operating temperature	°C	-10 ... +50		
Weight	kg	3,8		
Dimensions	mm	480 x 43 x 275 (19", 1 RU)		

HEADEND KHI 5084 - H264.IPTV ENCODER

19" IP-Headend with 8x HDMI into IP / 8x SPTS

- H.264-coding
- 8 x HDMI into 8 x SPTS
- Web-based configuration, remote maintenance possible (AXING SMARTPortal)
- Two redundant power supplies (hot pluggable)

Front view



Rear view



Type		KHI 5084
Item-No.		57004541
Inputs		8 x HDMI
HDCP		with HDCP 1.x-versions
Connector		Buchse Typ A
Encoder		
Video coding format		H.264/AVC/MPEG2
Video resolution		Up to 1080p@60
Max. Bitrat per channel		16 Mbps
Audio coding format		AAC, AAC+, AAC++, MP3
IPTV-Output		
Connector		8x RJ-45, IEEE 802.3, 10/100/1000 Base-T
Protocols		UDP, http, RTSP, RTMP, ONVIF
In general		
Power supply	V AC	100 - 240
Power input	W	35 (50-60 Hz)
Operating temperature	°C	0 ... +45
Weight	kg	3,8
Dimensions	mm	480 x 43 x 275 (19", 1RU)

HEADEND KIC 5216 - IPTV HEADEND

19" IPTV-Headend with maximum 512 SPTS inputs-streams in 16 DVB-C- or 12 DVB-T-output channels

- Two redundant IPTV-inputs (900 Mbps) per module possible
- Converts SPTS/MPTS also mixed into DVB
- Re-Multiplexing
- PID-Filtering / PID-Remapping
- Web-based configuration
- For AXING SMARTPortal suitable
- Supports SNMP
- Device redundancy configurable (Software extension necessary)
- OTA-Upgrade e.g. for Set Top Boxes possible
- Interface for CASimulcrypt Server (Software extension necessary)
- 19" - housing, 1 RU
- Two redundant power supplies , operation voltage 100...240 VAC

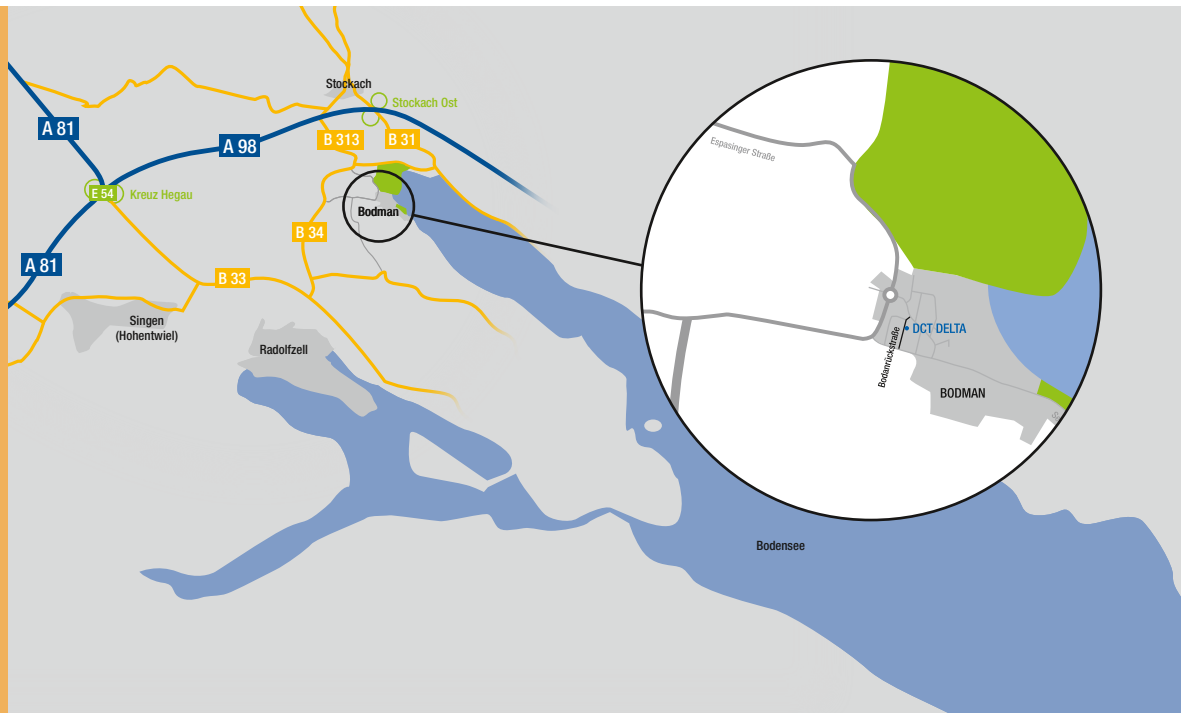


Type		KIC 5216
Item-No.		57004665
IPTV-inputs		
Supported transportation streams		SPTS, MPTS (CBR/VBR)
Max. number (from MPTS or SPTS)		512
Supported protocols		IP V4; UDP; RTP; IGMP v2, v3
Total net datarate		1 x 900 Mbps
Transportation streams		
Alterable program informations		Programm name, SID-Remapping, PID-Filtering, TSID, ONID
PCR-correction		automatically, adaptive, <500 ns
LCN		Yes
NIT-Handling @ DVB-C		auto manuel off
EPG-Regeneration		Yes
Encryption		On request
Outputs		
Number of channels		1x 16 DVB-C or 1x 12 DVB-T
Frequency range DVB-C		109 - 1006 (S2-K87)
Frequency range DVB-T		109 - 862 (S2 -K69)
Output level adjustable DVB-C		80 - 105
Output level adjustable DVB-T		77 - 102
Connector		F-connector
Testpoint -30dB		F-connector
In general		
Power supply	V AC	100 - 240
Power input	W	60 (50-60 Hz)
Operation temperature	°C	-10 ... +50
Weight	kg	3,8
Dimensions	mm	480 x 43 x 275 (19", 1 HE)

NOTICE



NOTICE



Germany and Austria

DCT DELTA AG
Bodanrückstraße 1
D-78351 Bodman
Tel. +49 7773 9363-0
Fax +49 7773 9363-777
info@dct-delta.de
www.dct-delta.de

Switzerland

DELTA Swiss AG
Industriezone Schächenwald
CH-6460 Altdorf
Tel. +41 4161 91400
Fax +41 4161 91409
info@delta-swiss.ch
www.delta-swiss.ch

70000220
Ed. 05.23