

smart[®]

LNB

2009



Titanium Edition



Titanium Edition LNBS

TITANIUM



0,1 dB



**Single
Universal TS**

★ GOLD ★
KONTAKTE



**Twin
Universal TT**

★ GOLD ★
KONTAKTE



**Quatro
Universal TQ**

★ GOLD ★
KONTAKTE

Smart Universal LNBS

Mit den „Titanium Edition“ - LNBS von Smart erwerben Sie erstklassige Qualität und allerneueste Technologie. Die kompakten hochwertigen KU-Band Konverter sind der Schlüssel zur digitalen Welt des Fernsehens. Mit einer hohen Stabilität der Resonatoren, der Verwendung von extrem rauscharmen HEMT Transistoren und einer ausgefeilten Produktionstechnologie ist es Smart gelungen erneut ein Spitzenprodukt am Markt zu platzieren.

Technische Daten / Technical Data

Model	Single Universal TS	Twin Universal TT	Quatro Universal TQ
Order-No.	10-99-12-0005	10-99-22-0004	10-99-32-0003
Feed-Diameter	40 mm	40 mm	40 mm
Low Band			
Input Frequency Range	10,7 ~ 11,7 GHz	10,7 ~ 11,7 GHz	10,7 ~ 11,7 GHz
Output Frequency Range	950 ~ 1950 MHz	950 ~ 1950 MHz	950 ~ 1950 MHz
Oszillator Frequency	9,75 GHz	9,75 GHz	9,75 GHz
Noise Figure	0,1 dB	0,1 dB	0,1 dB
Control Signal	Ca/Cb	Ca/Cb	Ca/Cb
High Band			
Input Frequency Range	11,7 ~ 12,75 GHz	11,7 ~ 12,75 GHz	11,7 ~ 12,75 GHz
Output Frequency Range	1100 ~ 2150 MHz	1100 ~ 2150 MHz	1100 ~ 2150 MHz
Oszillator Frequency	10,6 GHz	10,6 GHz	10,6 GHz
Noise Figure	0,1 dB	0,1 dB	0,1 dB
Control Signal	Ca & Cc/Cb & Cc	Ca & Cc/Cb & Cc	Ca & Cc/Cb & Cc
Low & High Band			
Conversion Gain	50 dB	50 dB	50 dB
Control Signal Ca Vertikal	11,0 ~ 14,2 V	11,0 ~ 14,2 V	11,0 ~ 14,2 V
Control Signal Cb Horizontal	15,5 ~ 21 V	15,5 ~ 21 V	15,5 ~ 21 V
Control Signal Cc Band	22 +/- 4 kHz	22 +/- 4 kHz	22 +/- 4 kHz
Power Consumption max.	110 mA	200 mA	200 mA
Working Temperature	-40 ~ +60 °C	-40 ~ +60 °C	-40 ~ +60 °C
Connection	F-type	F-type	F-type
HD TV	✓	✓	✓
Guarantee	5 year	5 year	5 year



**Quad
Switch TQS**

★ GOLD ★
KONTAKTE



**Octo
Switch TO**

The Smart Universal LNBs

„Titanium Edition“ are high quality products combined with the newest technology. These compact and high-quality converters are the key to the world of the digital television. With high stability, excellent noise figure and a high developed production technology, Smart reached a top position at the market.

Model	Quad Switch TQS	Octo Switch TO
Order-No.	10-99-42-0004	10-99-12-0007
Feed-Diameter	40 mm	40 mm
Low Band		
Input Frequency Range	10,7 ~ 11,7 GHz	10,7 ~ 11,7 GHz
Output Frequency Range	950 ~ 1950 MHz	950 ~ 1950 MHz
Oszillator Frequency	9,75 GHz	9,75 GHz
Noise Figure	0,1 dB	0,1 dB
Control Signal	Ca/Cb	Ca/Cb
High Band		
Input Frequency Range	11,7 ~ 12,75 GHz	11,7 ~ 12,75 GHz
Output Frequency Range	1100 ~ 2150 MHz	1100 ~ 2150 MHz
Oszillator Frequency	10,6 GHz	10,6 GHz
Noise Figure	0,1 dB	0,1 dB
Control Signal	Ca & Cc/Cb & Cc	Ca & Cc/Cb & Cc
Low & High Band		
Conversion Gain	50 dB	50 dB
Control Signal Ca Vertikal	11,0 ~ 14,2 V	11,0 ~ 14,2 V
Control Signal Cb Horizontal	15,5 ~ 21 V	15,5 ~ 21 V
Control Signal Cc Band	22 +/- 4 kHz	22 +/- 4 kHz
Power Consumption max.	200 mA	250 mA
Working Temperature	-40 ~ +60 °C	-40 ~ +60 °C
Connection	F-type	F-type
HD TV	✓	✓
Guarantee	5 year	5 year



Titanium Edition LNBs



TITANIUM®



0,1 dB



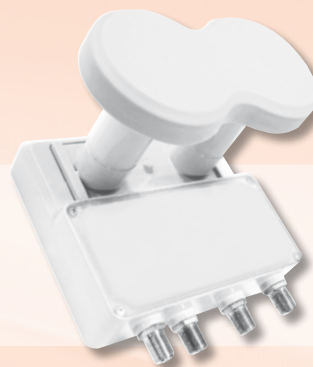
**Monoblock
Single TMS**



**Twin
Monoblock
TMT 43**



**Single
Monoblock
TMS 43**



**Quad-Switch
Monoblock
TMQ 43**

Technische Daten / Technical Data

Model	Monoblock TMS	Single Monoblock TMS 43	Twin Monoblock TMT 43	Quad-Switch Monoblock TMQ 43
Order-No.	10-99-12-0006	10-99-12-0011	10-99-22-0007	10-99-42-0006
Feed-Diameter	40 mm	40 mm	40 mm	40 mm
Low Band				
Input Frequency Range	10,7 ~ 11,7 GHz	10,7 ~ 11,7 GHz	10,7 ~ 11,7 GHz	10,7 ~ 11,7 GHz
Output Frequency Range	950 ~ 1950 MHz	950 ~ 1950 MHz	950 ~ 1950 MHz	950 ~ 1950 MHz
Oszillator Frequency	9,75 GHz	9,75 GHz	9,75 GHz	9,75 GHz
Noise Figure	0,1 dB	0,1 dB	0,1 dB	0,1 dB
Control Signal	Ca/Cb	Ca/Cb	Ca/Cb	Ca/Cb
High Band				
Input Frequency Range	11,7 ~ 12,75 GHz	11,7 ~ 12,75 GHz	11,7 ~ 12,75 GHz	11,7 ~ 12,75 GHz
Output Frequency Range	1100 ~ 2150 MHz	1100 ~ 2150 MHz	1100 ~ 2150 MHz	1100 ~ 2150 MHz
Oszillator Frequency	10,6 GHz	10,6 GHz	10,6 GHz	10,6 GHz
Noise Figure	0,1 dB	0,1 dB	0,1 dB	0,1 dB
Control Signal	Ca & Cc/Cb & Cc	Ca & Cc/Cb & Cc	Ca & Cc/Cb & Cc	Ca & Cc/Cb & Cc
Low & High Band				
Conversion Gain	50 dB	50 dB	50 dB	50 dB
Control Signal Ca Vertikal	11,0 ~ 14,2 V	11,0 ~ 14,2 V	11,0 ~ 14,2 V	11,0 ~ 14,2 V
Control Signal Cb Horizontal	15,5 ~ 21 V	15,5 ~ 21 V	15,5 ~ 21 V	15,5 ~ 21 V
Control Signal Cc Band	22 +/- 4 kHz	22 +/- 4 kHz	22 +/- 4 kHz	22 +/- 4 kHz
Power Consumption max.	110 mA	110 mA	240 mA	240 mA
Working Temperature	-40 ~ +60 °C	-40 ~ +60 °C	-40 ~ +60 °C	-40 ~ +60 °C
Connection	F-type	F-type	F-type	F-type
HD TV	✓	✓	✓	✓
Guarantee	5 year	5 year	5 year	5 year

Standard Edition LNBs



0,3 dB



**Single
Monoblock SMB 21**



**Twin
Monoblock SMB 22**



**Quad
Monoblock SMB 55**

Standard Edition LNBs

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Model	Single Monoblock SMB 21	Twin Monoblock SMB 22	Quad Monoblock SMB 55
Order-No.	10-01-62-0001	10-01-62-0002	10-01-62-0003
Feed-Diameter	40 mm	23 und 40 mm tauglich	23 und 40 mm tauglich
Low Band			
Input Frequency Range	10,7 ~ 11,7 GHz	10,7 ~ 11,7 GHz	10,7 ~ 11,7 GHz
Output Frequency Range	950 ~ 1950 MHz	950 ~ 1950 MHz	950 ~ 1950 MHz
Oszillator Frequency	9,75 GHz	9,75 GHz	9,75 GHz
Noise Figure	0,3 dB	0,3 dB	0,3 dB
Control Signal	Ca/Cb	Ca/Cb	Ca/Cb
High Band			
Input Frequency Range	11,7 ~ 12,75 GHz	11,7 ~ 12,75 GHz	11,7 ~ 12,75 GHz
Output Frequency Range	1100 ~ 2150 MHz	1100 ~ 2150 MHz	1100 ~ 2150 MHz
Oszillator Frequency	10,6 GHz	10,6 GHz	10,6 GHz
Noise Figure	0,3 dB	0,3 dB	0,3 dB
Control Signal	Ca & Cc/Cb & Cc	Ca & Cc/Cb & Cc	Ca & Cc/Cb & Cc
Low & High Band			
Conversion Gain	50-58 dB	50-58 dB	50-58 dB
Control Signal Ca Vertikal	11,0 ~ 14,2 V	11,0 ~ 14,2 V	11,0 ~ 14,2 V
Control Signal Cb Horizontal	15,5 ~ 21 V	15,5 ~ 21 V	15,5 ~ 21 V
Control Signal Cc Band	22 +/- 4 kHz	22 +/- 4 kHz	22 +/- 4 kHz
Power Consumption max.	110 mA	240 mA	240 mA
Working Temperature	-40 ~ +60 °C	-40 ~ +60 °C	-40 ~ +60 °C
Connection	F-type	F-type	F-type
HD TV	-	-	-
Sat-Umschaltung DiSEqC	✓	✓	✓