

Single-cable multi-switches

EXR 1581 20510032
EXR 2581 20510033



DVB
Digital Video
Broadcasting
suitable for DVB-T



Features

- Cascadable single-cable multi-switches for distribution of digital Sat-IF signals (4 Sat polarities; including HDTV) and terrestrial signals via one cable to up to eight receivers in a single-family household
- No limitation of programme variety - the satellite's complete programme range is transmitted
- Independent selection of horizontal/vertical, low/high band as well as transponder selection from each individual receiver
- Switching (horizontal/vertical, low/high band) and transponder selection take place in the multi-switch, controlled by the receiver with a special DiSEqC™ command set conforming to EN 50494
- For transponder selection, the single-cable multi-switches are equipped with special tuner modules called SCRs (Satellite Channel Router) which effect conversion to subscriber frequencies
- A fixed subscriber frequency is assigned to each receiver (twin receivers require two subscriber frequencies)
- Conforms to SCR single-cable standard EN 50494, i.e. all components of a single-cable system that conform to this norm can be integrated in a Sat system
- Reception of terrestrial range is also possible when the receiver is switched off

- Settable gain in the Sat range with integrated pre-emphasis enables optimal signal distribution to the subscriber connection
- Single-cable multi-switch EXR 2581 and multi-switch loop-through EXR 2558 can be combined as desired. Up to 8 multi-switches can be cascaded
- For indoor installation

EXR 1581

- Single-cable multi-switch for a single-cable connection for 8 receivers, with an integrated power supply unit for LNB supply
- LNB remote feeding via horizontal low input. All other inputs are voltage-free
- Low power consumption due to high-efficiency, short-circuit proof switched mode power supply unit and energy-saving concept (the single-cable multi-switch is powered by the receiver connected to it and is thus switched off whenever the receiver is switched off)

EXR 2581

- Single-cable multi-switch loop-through for system extension by a single-cable connection for 8 receivers



SATVISION	
Kathrein EXR 1581	
SEHR GUT	94,2 %
7 Unicable Multischalter für 1 Orbitalposition im Vergleich	Heft 06/2009

Technical data

Type		EXR 1581		EXR 2581	
Order no.		20510032		20510033	
Subscriber connections		1 x 8		1 x 8	
Inputs		1 x terrestrial	4 x Sat-IF	1 x terrestrial	4 x Sat-IF
Frequency range	MHz	5-862	950-2,150	5-862	950-2,150
Through loss	dB	-	-	2.5	2.0
Connection loss (terrestrial)	dB	1	-	7	-
Gain to subscriber (SAT)	dB	-	2 → 8 ²⁾	-	2 → 8 ²⁾
Setting range attenuators (SAT, 1 dB steps)	dB	-	0-15	-	0-15
Decoupling horiz./vert.	dB	-	30	-	30
Decoupling trunk	dB	-	-	-	40
Max. output level ¹⁾	dBμV	-	93	-	93
Subscriber frequency/SCR address					
Receiver 1		1,284/0		1,284/0	
Receiver 2		1,400/1		1,400/1	
Receiver 3		1,516/2		1,516/2	
Receiver 4		1,632/3		1,632/3	
Receiver 5		1,748/4		1,748/4	
Receiver 6		1,864/5		1,864/5	
Receiver 7		1,980/6		1,980/6	
Receiver 8		2,096/7		2,096/7	
Perm. supply voltage on subscriber output	V	12-14		12-14	
Max. current drain through subscriber output	mA	320		320	
Input nominal voltage	V	230 (47-63 Hz)		-	
Permissible input voltage range	V	198-253		-	
Nominal input voltage (with 800/150/0 mA load)	W	1.7/4.7/18		-	
Voltage secondary (input horiz. low)	V	18		-	
Max. total remote feed current (input horiz. low)	mA	800		-	
Max. permissible remote feed current per trunk	mA	-		1,000	
Protection class/protection category		II (insulated)/IP 30		IP 30	
Ambient temperature range	°C	-20 to +55		-20 to +55	
Connections		F-type connectors		F-type connectors	
Dimensions	mm	215 x 148 x 43		160 x 148 x 43	
Packing unit/weight	pc./kg	1 (10)/0.65		1 (10)/0.45	

¹⁾ According to EN 60728-3, interference products 3rd order, 35 dB IMod

²⁾ Frequency-dependent attenuation/gain (Pre-emphasis)