

Fiber Optical Distribution

4020 FiberTwist SAT

The Johansson optical FiberTwist SAT is a dSCR multiswitch with optical wideband satellite input signal. It offers the possibility to insert a terrestrial signal, which then is available together with the satellite signal on the RF output. For the optical transmitter we suggest the Johansson ref. 4000.

The 4020 integrates several functions in one unique device. The insertion of the satellite signal is realized through one single glass fiber on which two wideband signals (V & H) are transmitted. These signals are converted into a dSCR signal and then provided to the final devices. The FiberTwist has been designed for Home Media Gateways and multi tuner receivers, the output level provided is still strong enough to forward it to up to three antenna sockets.

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- optical wavelengths: 1310nm (V), 1330nm (H)
- optical input level: -10 to +9 dBm
- terrestrial input range: 5 to 862 MHz (via RF input)
- SCR output level (per transponder): 85 dB μ V (typ.)
- outputs: 1 with 10 userbands
- standards: DiSEqC 1.0/ DiSEqC 2.0/ EN 50494 (SCD)/ EN 50607 (SCD2)/ Universal LNB Voltage & Tone
- compatible with legacy STB's
- power supply: 12V - 20V / 500mA (included)



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Optical inputs	-	1
Terrestrial inputs	-	1 (RF)
RF outputs	-	1 (dCSS/dSCR/Legacy/TERR.)
Optical wavelength	nm	1310 1330
Terrestrial frequency range	MHz	5 - 862
Satellite output frequency range	MHz	950 - 2150
Optical input level	dBm	-10 to +9
Terrestrial insertion loss	dB	3
dSCR & legacy output level per Tr (AGC)	dB μ V	85
dCSS/dSCR UBs	-	10
Return loss	dB	10
Optical connector type	-	SC / APC
Output connector type	-	75 ohm F type (female)
Band and polarity selection	-	DiSEqC 1.0 (unidirectional) DiSEqC 2.0 (bidirectional) Standard EN50494/EN50607 SKY UK protocol Universal LNB Voltage & Tone
Satellite mode	-	Green LED (solid green for legacy and blinking green for dCSS)
Power consumption	W	5
Power supply via DC IN	VDC	12 - 20
Power indicator	-	Green LED for power
Operating temperature range	°C	-20 to +55
Dimensions	mm	110 x 110 x 25
Weight	kg	0.200