

Brief description

The optical multiswitch is a device with integrated optical receiver and multiswitch in one common housing. The OMS6/10 optical multiswitch system can be used for reception of not only satellite and terrestrial TV signals via its single mode SC/APC optical input, but Gigabit speed data as well. The system is designed for reception of complete TV signals of one satellite, terrestrial TV and Gigabit data via the SC/APC optical input of multiswitch. It is equipped with 10 subscriber coaxial outputs made of 75 ohm F connectors, for direct connection of satellite set top boxes. Moreover, the multiswitch is equipped with additional SC/APC optical connector for connection of data terminal (ONU).



Technical data

Parameter	Value		
Main optical input/output	SC/APC single mode, 1270-1350nm, 1490nm		
GPON/EPON optical input/output	SC/APC single mode, 1310 & 1490 nm		
RF outputs	10 x F-connector (16 x SAT, 1 x TERR)		
RF outputs – Frequency range	SAT 950 – 2150 MHz, TERR 40 – 862 MHz		
Main optical input power range	-20 +5 dBm		
RF output signal level range	+58 +100dBuV		
GPON/EPON maximum data speed	2.5Gbps uplink/downlink		
GPON/EPON optical signal loss	2.0 +/- 1dB		
Compatible optical transmitter	OT6/1FUC-4		
Maximum number of optical splits between OT6/1FUC-4 and OMS6/10	64		
Current consumption	0.18 A (12 V DC)		
Dimensions (w,d,h)	25.5 x 18,0 x 7,0 cm		
Operating temperature range	-25 – +60 °C		
Housing material	Aluminium		
RF Signal level performance based on optical link configuration			
	Recommended input RF level of OT6/1FUC-4:		
	min.	max.	RF gain / loss
Transmitter – Optical multiswitch, direct connection	45 dBuV	85 dBuV	15 dB (gain)
Transmitter – 2way splitter (PLC) – Optical multiswitch	50 dBuV	85 dBuV	4 dB (gain)
Transmitter – 4way splitter (PLC) – Optical multiswitch	55 dBuV	85 dBuV	-2 dB (loss)
Transmitter – 8way splitter (PLC) – Optical multiswitch	60 dBuV	85 dBuV	-8 dB (loss)
Transmitter – 16way splitter (PLC) – Optical multiswitch	65 dBuV	85 dBuV	-14 dB (loss)
Transmitter – 32way splitter (PLC) – Optical multiswitch	70 dBuV	85 dBuV	-20 dB (loss)
Transmitter – 64way splitter (PLC) – Optical multiswitch	75 dBuV	85 dBuV	-25 dB (loss)

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