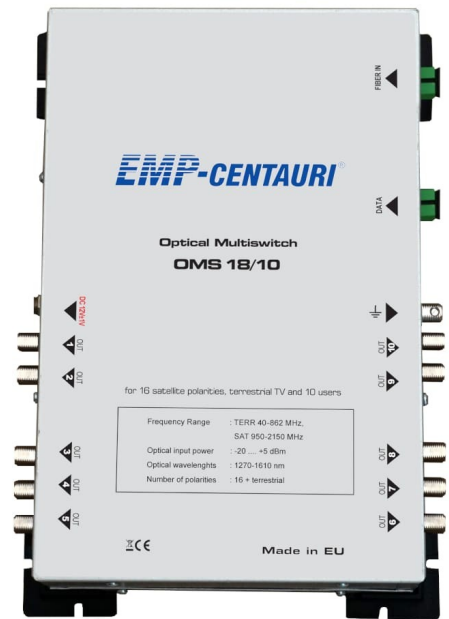


## Brief description

The optical multiswitch is a device with integrated optical receiver and multiswitch in one common housing. The OMS18/10 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 1,2,3 and 4 satellites, 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, 1270-1610nm
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	OT18/1FUC-4
Maximum number of optical splits between OT18/1FUC-4 and OMS18/10	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
<b>RF Signal level performance based on optical link configuration</b>	
	<b>Recommended input RF level of OT18/1FUC-4:</b>
	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)

**Postal address:** EMP-Centaury s.r.o. 5. května 690 339 01 Klatovy Czech Republic

**Management:** Tel.: +420 376 323 813 Tel.: +420 603 497 419 E-mail: [info@emp-centauri.cz](mailto:info@emp-centauri.cz)

**Sales department:** Tel.: +420 376 323 813 Tel.: +420 603 497 419 Tel.: +420 776 619 976 (EN) Tel.: +420 778 066 654 (CZ) E-mail: [sales@emp-centauri.cz](mailto:sales@emp-centauri.cz)

**Purchase department:** E-mail: [purchase@emp-centauri.cz](mailto:purchase@emp-centauri.cz)

**Technical support:** Tel.: +420 376 323 853 (during workhours) Hotline: +420 603 497 419 (available anytime) E-mail: [support@emp-centauri.cz](mailto:support@emp-centauri.cz)