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Optical LNB kit, equipped with an ODU32 converter

DAB/UHF/SAT, 2 outputs: 1550 nm, Po 8 dBm

Kit consisting of an optimized LNB with an RF output containing all the satellite services in the 950 MHz-5450 MHz band. The ODU32 converter's satellite input receives the LRF signal from the LNB; it is also equipped with a second input for terrestrial signal (47 MHz -862 MHz) mixing. Provides 2 outputs in the 1550 nm window, with 8 dBm optical power.

The kit also includes:

- Converter power supply, with Jack, EU and UK plugs
- Special 2 m and 50 Ohm coaxial cable with an N connector for the plugging of both the LNB and the converter
- Mounting-base for the converter to be mounted on a mast or any other type of support
- Accessories such as clamps and covers

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Highlights

- Allows long-distance (km) signal transmission
- Optimized LNB (stacked): converts the 4 universal SAT bands into a single RF output
- Up to 64 clients
- Terrestrial signal conversion and mixing

Main features

- FC/PC optical connectors, F-type connectors for RF

Technical specifications

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SATELLITE					
Input frequency	GHz	V. Pol		0.95 - 3.0	
		H. Pol		3.4 - 5.45	
Nominal impedance	Ω	50			
Minimum return loss	dB	9			
Input power from the LNB	dBμV	96 - 111			
Gain variation across	dB	V. Pol		4	
		H. Pol		7 (with a 3dB upward slope)	
Gain ripple (per 30MHz bandwidth segment)	dB	1			
Minimum AGC Range	dB	15			
Noise figure (Max gain)	dB	12			
Minimum OIP3	dBμV	129			
Minimum 47-862MHz Rejection	dB	20			
FM/DAB/DTT					
Input frequency	MHz	47-862			
Nominal impedance	Ω	75			
Return loss	dB	10			
Input power	dBμV	1 Mux	Min	70	
			Max	95	
		4 Mux	Max	90	
		8 Mux	Max	85	
Nominal gain (Max. gain set)	dB	45			
Nominal gain (Min. gain set)	dB	15			
Maximum gain variation across DTT band	dB	4			
Gain ripple (per 8MHz bandwidth segment)	dB	0.5			
AGC Range	dB	25			
Noise figure (Max gain)	dB	10			
Minimum OIP3	dBμV	134			
950-2150 MHz Rejection	dB	20			
ELECTRICAL					
Converter RF to FO, power supply	V=	20 by “F” type connector			
LNB supply voltage	V=	6.2 ± 0.2 by “F” type connector			
Terrestrial supply voltage (80 mA max.)	V=	11 ± 0.5 by “F” type connector			
Current consumption (LNB Including)	mA	< 500			
MECHANICAL					
Operating temperature ranges	°C	-10 ... 50			
Storage temperature ranges		-30 ... 60			
Optical output connector	Type	FC/PC			
Satellite input connector	Type	“N” Female			
FM/DAB/TDT	Type	“F”			

Power supply connector	Type	"F"
OPTICAL		
Output power	dBm	8
Wavelength	nm	1550 ± 20