

ON20-WDM

PON&CATV WDM Optical Receiver WDM CATV optični sprejemnik



FTTH broadband access is the ultimate development goal, ON600WD is the target terminal product for it. It adopts technology of high isolation WDM in order to separate CATV and ONU signal. Furthermore, it also adopts low optical power receiving and RF-AGC control technique, which could achieve the requirement of $\leq -10\text{dBm}$ CATV receiving for FTTH. It supports RF outputs constantly.

Specification:

Item		Unit	Performance Parameter
Optical characteristic	Input wavelength	(nm)	1310, 1490, 1550
	Output wavelength	(nm)	1310, 1490
	Operation wavelength	(nm)	1540~1560
	Channel separation	(dB)	≥ 40 (1310/1490nm & 1550nm)
	Response	(A/W)	≥ 0.9
	Receive power range	(dBm)	+2 ... -15
	Reflection loss	(dB)	≥ 55
	Fiber linker		SC/APC
	PON linker		SC/UPC (or SC/APC)
RF characteristic	Bandwidth / flatness	MHz/dB	47-1000 / $\leq \pm 1$
	Output level	dBuv	AGC: 82 ± 1 / (-2 ~ -10dBm)
	Reflection loss	dB	≥ 14 (75 Ω characteristic impedance)
	RF output interface		1 way output (or two way output)
	CNR / MER	dB	$\geq 44/34$ (PAL-D 60CH, OMI 3.8%, -9dBm)
	CTB / CSO / HUM	dB	$\geq 65 / \geq 60 / \geq 60$ (-1dBm receive)
Other requirement	Power supply / consumption	V/W	External AC100~240V→DC5/5
	Working / storage temperature	°C	-35~50 / -40~75 (humidity 5~90%)
	Size	mm	95×92×23