



# OPTICAL FIBRE RECEIVER WITH AGC FOR RF OUTPUT & WDM (GPON & XGS-PON)

## KOR100X

The KOR100X Optical Receiver uses a high-sensitivity PIN detector. The digital TV frequency range is 47~2600MHz on a single fibre and is compatible with any FTTx PON system to achieve a triple-network combination between Digital TV (DVB-C, DVB-T), Satellite TV (DVB-S) and Internet (Data).

It has a built-in WDM to separate wavelengths of 1555nm (CATV) and GPON & XGS-PON (data).

AGC function on the RF output provides a typical RF level of 81~85.

The optical fibre receiver is powered by a Kingray PSK12S power supply (sold separately), or if there is an existing PSU in the installation location, then a DC Splitter Cable could be used such as item KLE030.

Foxtel Approved.

### FEATURES

Frequency Range 47~2600 MHz

Built-in WDM to separate wavelengths of 1550~1560nm (CATV) and GPON & XGS-PON (data)

Receiving Sensitivity Range: +1dBm to -15dBm

RF Output Level with AGC: Typically 81~85dB

Suitable for Digital TV and SATELLITE RF signals

Digital TV (DVB-C, DVB-T) and Satellite TV (DVB-S) signal can be received via a single fibre at the same time

LED Indicator

Compact in design, wall mountable and light weight

Optical Connector: SC/APC

RF Connector: F-Female



## TECHNICAL INDEX

PERFORMANCE				INDEX			SUPPLEMENT
				Min.	Typ.	Max.	
OPTICAL FEATURES	CATV Operation Wavelength		(nm)	1540		1563	
	Pass Wavelength		(nm)		1270/1310/ 1490/1577		
	Responsivity	R15	(A/W)	0.95			1550nm
	Receiving Optical Power		(dBm)	-15		+1	
	Optical Receiving PD			PIN			
	Return Loss		(dB)	≥55			
	Optical Connector			SC/APC			
RF FEATURES	Working Bandwidth		(MHz)	47		2600	
	Output Level		(dBμV)		85		+1dBm to -12dBm
	Flatness	(dB)		-2.0		+2.0	47~860MHz
				-0.5		+0.5	40MHz
				-2.0		+2.0	950~2400MHz
	Output Return Loss		(dB)	≥10			47~2600MHz
	Channel Loading	(CH)			64QAM		Digital TV
					36		QPSK or FM
	IM3		(dB)	-65			
	HUM		(dB)	-60			
	IP1		(dBm)	18			
	Output Impedance		(Ω)		75		
	RF Connector			F-Female			75Ω
GENERAL SPECIFICATIONS	Power Supply	DC	(V)	12			PSK12S
	Input Current		(A)			0.25	
	Power Consumption		(W)		0.15		
	Operating Temperature		(°C)	-5		+60	
	Storage Temperature		(°C)	-40		+85	
	Relative Humidity		(%)	5		95	
	Size		(mm)	50 x 88 x 23			

Specifications are subject to change without notice, they are issued as a guide only and shall not form part of any contract without the express written authorisation of GME.

