

Kingray

Specialists in TV signal amplification

INSTALLATION MANUAL

MODEL: KOR001

Satellite TV FTTx PIN Optical Receiver



kingray.net.au

PRODUCT DESCRIPTION

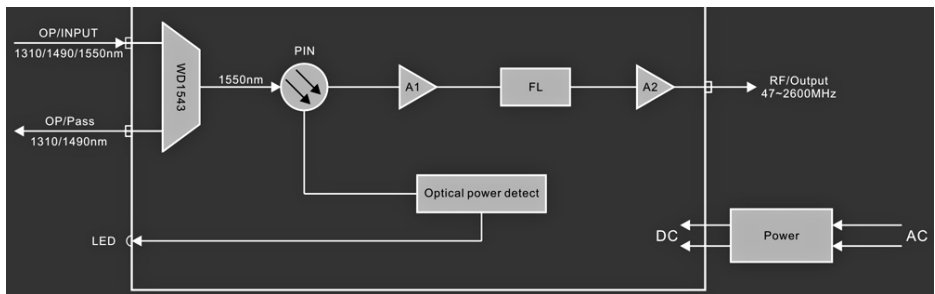
The KOR001 Optical Receiver uses a high-sensitivity PIN detector. It can receive analogue and digital signals within the frequency range of 47~2600MHz on a single fibre and is compatible with any FTTx PON system to achieve a triple-network combination between Digital TV (DVB-C, DVB-T), Satellite TV (DVB-S) and Internet.

The KOR001 is wall mountable and suitable for FTTx PON.

PRODUCT FEATURES

- The receiving sensitivity range is -13dBm to +1dBm
- High linearity, suitable for Digital TV and SAT-IF application
- Wide band type: 47~2600MHz
- Digital TV (DVB-C, DVB-T) and Satellite TV (DVB-S) signal can be received via a single fibre at the same time
- Built-in WDM to separate wavelengths of 1550nm (CATV) and 1310/1490nm (data)
- LED Indicator
- Compact in design, wall mountable and light weight

CIRCUIT DIAGRAM OF OPTICAL RECEIVER



TECHNICAL INDEX

Performance			Index			Supplement
			Min.	Typ.	Max.	
Optical Features	CATV Operation Wavelength	(nm)	1540		1563	
	Pass Wavelength	(nm)		1310/1490		
	Responsivity	R13	0.9			1310nm
		R15	0.95			1550nm
	Receiving Optical Power	(dBm)	-13		+1	
	Optical Receiving PD		PIN			
	Return Loss	(dB)	≥50			
			SC/APC			
RF Features	Working Bandwidth	(MHz)	47		2600	
	Output Level	(dBμV)	70		90	
	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		
			F-Female			75Ω
General Specifications	Power Supply	DC	(V)	12		PSK12S
	Input Current		(A)		0.1	
	Power Consumption		(W)	5	10	
	Operating Temperature		(°C)	-5	+60	
	Storage Temperature		(°C)	-40	+85	
	Relative Humidity		(%)	5	95	
	Size		(mm)	50 x 88 x 23		

Laser Class: 1



CAUTION: Use caution when handling fibres.
Do not exceed fibre manufacturer's pulling tension or bend radius specifications when removing fibre bulkhead connector plate.



This warranty against defects is given by Standard Communications Pty Ltd ACN 000 346 814 (We, us, our or GME). Our contact details are set out in clause 2.7. This warranty statement only applies to products purchased in Australia. Please contact your local GME distributor for products sold outside of Australia. Local distributor details at www.gme.net.au/expot.

1. Consumer guarantees

- 1.1 Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.
- 1.2 To the extent we are able, we exclude all other conditions, warranties and obligations which would otherwise be implied.

2. Warranty against defects

- 2.1 This warranty is in addition to and does not limit, exclude or restrict your rights under the Competition and Consumer Act 2010 (Australia) or any other mandatory protection laws that may apply.
- 2.2 We warrant our goods to be free from defects in materials and workmanship for the warranty period (see warranty table) from the date of original sale (or another period we agree to in writing). Subject to our obligations under clause 1.2, we will at our option, either repair or replace goods which we are satisfied are defective. We warrant any replacement parts for the remainder of the period of warranty for the goods into which they are incorporated.
- 2.3 To the extent permitted by law, our sole liability for breach of a condition, warranty or other obligation implied by law is limited
 - a) in the case of goods we supply, to any one of the following as we decide -
 - (i) the replacement of the goods or the supply of equivalent goods;
 - (ii) the repair of the goods;
 - (iii) the cost of repairing the goods or of acquiring equivalent goods;
 - b) in the case of services we supply, to any one of the following as we decide -
 - (i) the supplying of the services again;
 - (ii) the cost of having the services supplied again.
- 2.4 For repairs outside the warranty period, we warrant our repairs to be free from defects in materials and workmanship for three months from the date of the original repair. We agree to re-repair or replace (at our option) any materials or workmanship which we are satisfied are defective.

- 2.5 We warrant that we will perform services with reasonable care and skill and agree to investigate any complaint regarding our services made in good faith. If we are satisfied that the complaint is justified, and as our sole liability to you under this warranty (to the extent permitted at law), we agree to supply those services again at no extra charge to you.
- 2.6 To make a warranty claim you must before the end of the applicable warranty period (see warranty table), at your own cost, return the goods you allege are defective, provide written details of the defect, and give us an original or copy of the sales invoice or some other evidence showing details of the transaction.
- 2.7 Send your claim to:
Standard Communications Pty Ltd.
 17 Gibbon Rd, Winston Hills,
 NSW 2153 Australia.
 Tel: (02) 8867 6000
 Fax: (02) 8867 6199
 Email: servadmin@gme.net.au
- 2.8 If we determine that your goods are defective, we will pay for the cost of returning the repaired or replaced goods to you, and reimburse you for your reasonable expenses of sending your warranty claim to us.
3. **What this warranty does not cover**
 - 3.1 This warranty will not apply in relation to:
 - (a) goods modified or altered in any way;
 - (b) defects and damage caused by use with non Standard Communications products;
 - (c) repairs performed other than by our authorised representative;
 - (d) defects or damage resulting from misuse, accident, impact or neglect;
 - (e) goods improperly installed or used in a manner contrary to the relevant instruction manual; or
 - (f) goods where the serial number has been removed or made illegible.

4. Warranty period

- 4.1 We provide the following warranty on GME and Kingray products. No repair or replacement during the warranty period will renew or extend the warranty period past the period from original date of purchase.

Product Type	Warranty Period
Optical Fibre Receiver	1 Year

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