

INSTALLATION MANUAL

MODEL: KOT001

Optical Transmitter

PRODUCT FEATURES

- Wide Band Type: 47~2600MHz
- Suitable for Digital TV and Satellite TV application
- One fibre can transmit Digital TV (DVB-C, DVB-T) and Satellite TV (DVB-S)
- Cooled HGHL DFB laser provides better system stability
- 1550nmTX can be amplified by EDFA, YEDFA to cover large-scale FTTH and is compatible with any FTTx PON technology
- Dual power supply, 1+1 backup

MAIN APPLICATION

- FTTH for Digital TV and Satellite TV
- FTTx PON (EPON, GPON)
- Other digital video application

RELATED PRODUCTS

- Optical Receiver: KOR001 and KOR002
- Optical Amplifier: KOA Series - 1550nm CATV Erbium Doped Fibre Amplifier

TRANSMITTER CONTROLS, INDICATORS, AND ALARMS

All instructions listed below refer to the representation of the front panel shown in the below diagram. The user scrolls through the TX menus using the push buttons found on the front panel of the TX.



THE OPERATION OF THE PANEL

1 Open Menu

- Plug in 100-240VAC power supply
- Turn on power switch in the rear panel
Front panel display "KEY OFF"
Laser Status lamp red
RF Input Status lamp red
Temp Status lamp green
Power Status lamp green
LAN Status lamp dark
- Press laser start-up key switch
Front panel display KEY ON.....Laser status lamp turn green.

2 Start-Up Main Menu

You may wish make a record of the parameters.

Pressing the ◀\▶ button will display below menu in sequence.

Menu #1	Model Descriptor Type of Equipment and Model
Menu #2	S/N Serial Number
Menu #3	Date Code Date Code
Menu #4	Optical Output Power Output Optical Power
Menu #5	BIAS Current LASER BIAS Current
Menu #6	TEC TEC Current
Menu #7	Laser Temp Laser Temperature
Menu #8	Input RF Level RF Level
Menu #9	+5V Monitor Power Voltage Reading
Menu #10	-5V Monitor Power Voltage Reading
Menu #11	+8V Monitor Power Voltage Reading
Menu #12	System Temp System Temperature
Menu #13	IP IP Address
Menu #14	Submask IP Sub Mask
Menu #15	Gateway Gateway Address
Menu #16	Trap1 TRAP1 Address
Menu #17	Trap2 TRAP2 Address

Menu Operation

Press ◀\▶ key to choose the menu that needs to be amended. Press ▼ key to enter, push ◀ to shift, and press ▶ to change the value. Press ▼ to save the result and exit.

For example; amend IP setup menu, IP: 192.168.000.015; if you want to change 5 to 6, use ◀\▶ to choose the IP menu, press ▼ to enter, press ◀ to choose the place of 5, press ▶ to change 5 to 6, and then press ▼ to save the amended IP: 192.168.000.016.

TECHNICAL INDEX

Performance			Index			Supplement
			Min.	Typ.	Max.	
Optical Features	Laser Type	A Type	Cooling DFB			
	CATV Operation Wavelength	(nm)	1530	1550	1563	
	Equivalent Noise Temperature	(dB/Hz)			-155	
	Side Mode Suppression Ratio	(dB)	35			
	Optical Isolation	(dB)	30			
	Optical Output Power	(dBm)		6		
	Return Loss	(dB)	50			
	Optical Connector		SC/APC			
RF Features	Operating Bandwidth	(MHz)	47		2600	
	Input Range	(dB μ V)	77		87	
	Flatness	(dB)	-2.0		+2.0	47~860MHz
			-0.5		+0.5	40MHz
			-2.0		+2.0	950~2600MHz
	Return Loss	(dB)	10			47~2400MHz
	Channel Loading	(CH)		64QAM		Digital TV
				36		QPSK or FM
	CNR	(dB)	28			
	CTB	(dB)			-36	
	CSO	(dB)			-36	
Input Impedance	(Ω)		75			
RF Connector		F-Female			75 Ω	
General Specifications	Network Management Interface		RJ45			SNMP
	Power Supply	(V)	100		240	220VAC (Dual Supply)
	Input Current	(A)			0.2	
	Power Consumption	(W)	5		20	
	Operating Temp	($^{\circ}$ C)	-5		+50	
	Storage Temp	($^{\circ}$ C)	-40		+85	
	Relative Humidity	(%)	+5		+95	
	Size	(")	19 x 14.5 x 1.75			



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/export.

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 Transmitter	1 Year