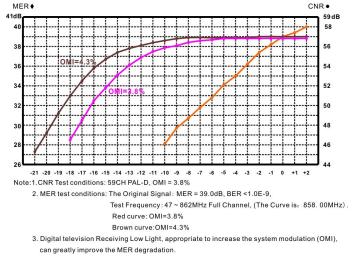
6.0 EPON ONU TECHNICAL INDEX

Standard appliance	IEEE802.3/802.3ah	Fiber interface performance	SC/APC		
Work wavelength	Tx: 1310nm, Rx: 1490nm	Fiber type standard	Sinale mode fiber SMF		
Tx Output Power	-1dBm ~ +3dBm	Rx receiver sensitivity	-26dBm		
Transmit rate	1Gbps up/down bound symmetr	Optical link budget loss	29dB		
Service quality	QoS IEEE802.1p IPV4 TOS prid	ority Subscriber identification	ONU IEEE802.1x		
Dvnamic Bandwidth allocate	DBA The biggest bandwidth of every ONU subscriber and assure the allocate with quantity				
L2 switch function	MAC address management:8K	Rate Limiting:Support IGMP Snooping	a (V1/V2) inauirv		
	Support IEEE802.1d STP support	ort IEEE802.1g VLAN			
Management mode	Web Server . SNMP data collect. can remote escalate built-in software by HTTP				
LAN interface	Standard appliance	IEEE802.310Base-t.IEEE802.3u 100Base-Tx/Fx IEEE802.3x			
EAN Interface	Interface and quantity	4 RJ45. 10M/100M Ethernet network	port		

7.0 CNR, MER DEGRADATION TABLE



8.0.NOTE

1.Power Adapter Type: Input 220V, output DC power 12V (1A)

2.PON port with SC/APC fiber connector. Need put protective seal when the connector not in use, make sure the optical connector

are cleaning.

3. When Optical signal connected with the PON port, the indicator light of PON port will turn on. If the

light turns on and stable, it means the signal with center office network well connected and

registered. If the light flashes, then means the signal not well connected and registered, need double check.

4. LOS lights turn on, means the self-test not pass. If the PON indicator light shows stable, but LOS lights turn on, it means the device is faulty.

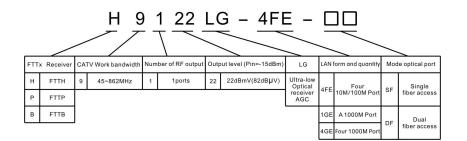
5. 4 LAN indicator light corresponds to 4 10M/100M Ethernet interface, when lights flashing, it Means the link well connected, and all data well transferred.

H9122LG-4FE-SF,H9122LG-4FE-DF

Triple play FTTH ONU

(CATV+EPON ONU)





User Manual

Ver. 2.2 en

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光泰 Guangtai

HANGZHOU HUATAI OPTIC TECH. CO., LTD

1.0 PRODUCT DESCRIPTION

Huatai H9122LG-4FE, is a triple play,FTTH ONU Optical network unit. Products will be a high-performance optical receivers and CATV FTTH EPON ONU, integrated in an ultra-small metal box. Provides high-quality and high-speed data to the user CATV, language, video and other broadband business services. High-performance products, high compatibility and excellent cost performance, today's triple play, FTTH preferred device.

H9122LG-4FE, built-in EPON ONU, providing users 4 10M/100M LAN ports . Product implementation of the national Ministry of interoperability standards , compatible with multiple manufacturers of EPON OLT, to achieve interoperability .

H9122LG-4FE, built-in CATV FTTH optical receiver using H9122. H9122 selected operators in over FTTH networks. Its high performance , high reliability has been widely verified. H9122 can be used to save a large amount of optical fiber amplifier power resource . For operators , can greatly reduce the cost of building the network.H9122LG-4FE optical port mode, there are two kinds of selection:

H9122LG-4FE-SF: single fiber access , built-in CWDM, applicable Triplexer wave system H9122LG-4FE-DF: dual fiber access, without CWDM, CATV and data each with an optical fiber.

2.0 PRODUCT FEATURE

3.0 PRODUCT FEATURE

2.1 Digital TV optical receiver	3.1 CATV		d ontion	n nowor)
Ultra-low noise, for analog TV,			u oplica	i power)
Pin =-10dBm, Vo ≥ 69dB μ V, CNR ≥ 45dB	Red	>+2dBm		
High receiver sensitivity for digital television,	Green	+2~-13dl	3m (D	igital TV:+2~-16dBm)
Pin =-16dBm, Vo ≥ 60dBµV, MER ≥ 35dB	Orange	-13~-16d	Bm(Dig	jitalTV:-16∼-20dBm)
Received optical power over a large dynamic range of	Red	<-16dBm	ı (Digita	lTV:<-20dBm)
+2 dBm ~-21dBm, And have excellent properties	3.2 ONU			
Optical power can save a lot of resources, greatly	PON (Green)		
reduce the cost of network construction 2.2 EPON ONU	Bright : Link, registered normal			
	Flic	ker : Link	s. reaist	ration is not normal
Powerful L2 switching				
High rate of PON: up and down the line of symmetry	LOS (Red	3)	Off : No	ormal
1Gb / s data, VoIP and IPTV language		Bri	ght : De	evice self-test failure
For ONU automatic identification, location, configuration,	LAN1 (Gr	reen)	Flicke	er : Link normal
ONU can " plug and play"	LAN2 (Gr	reen)	Flicke	er : Link normal
High quality based on the service level agreement (SLA) Accounting (QoS) features	LAN3 (Gr	,	Flicke	er : Link normal
Powerful remote management functions and data to	LAN4 (Gr	reen)	Flicke	er : Link normal
Support various OAM functions with a Single fiber.	3.3 Power	-		
2.3 General Characteristics	Power(Gr	een)	Bright	: Normal
Metal case, offer safeguard for optoelectronic sensitive devices		,		
Low consumption, high performance, high reliability				

Excellent cost performance in area

4.0 PRODUCT SERIES

Model	Mode optical port	CATV work	Data work	Fiber connector
H9122LG-4FE-SF	Triplexer wave	1540~1563nm	1310/1490nm	SC/APC
H9122LG-4FE-DF	Dual Fiber Access	1260~1620nm	1310/1490nm	CATV:SC/APC,DATA:SC/UPC

5.0 TECHNICAL INDEX

	Performance		Index	Supplement
	CATV Work wavelength	(nm)	1260~1620	H9122LG-4FE-DF
			1540~1563	H9122LG-4FE-SF
	Channel Isolation	(dB)	≥40	1550nm & 1490nm
	Responsivity	(A/W)	≥0.85	1310nm
Optic		. ,	≥0.9	1550nm
	Receiving power	(dBm)	+2~-10	Analog TV(CNR>45dB)
feature		. ,	+2~-20	Digital TV(MER>28dB)
	Optical return loss	(dB)	≥55	
			SC/APC	H9122LG-4FE-SF
	Optical fiber connector		SC/UPC(CATV)	H9122LG-4FE-DF
			LC/APC(DATA)	1012220-41 2-01
	Work bandwidth	(MHz)	45 ~ 862	
	Flatness	(dB)	≤+0.75	45~862MHz
	Output level	(dBµV)	>88	AnalogTV (Pin=+2~-8dBm)
			>82	Digital TV(Pin=-15dBm)
RF	ALC(AGC) character (ΔVo)	(dB)	≤+1.0	Pin:+2.0~-8.0dBm
Feature	Output level adjust	(dB)	0~18	MGC
	Return loss	(dB)	≥14	47 ~ 862MHz
	Output impedance	(0)	75	
	Output port number		1	
	RF tie-in		F-Female	
	Test channel	(CH)	59CH(PAL-D)	
Analog	ОМІ	(%)	3.8	
ΤV	CNR1	(dB)	544	Pin=-2dBm
Link	CNR2	(dB)	45.1	Pin=-10dBm
Feature	СТВ	(dB)	≤-70	Pin: 0~-10dBm
	CSO	(dB)	≤-65	Pin: 0~-10dBm
DigitalTV	OMI	(%)	4.3	
Link	MER	(dB) -	≥36	Pin=-15dBm
			≥29	Pin=-20dBm
Feature	BER	(dB)	<1.0F-9	Pin:+2~-20dBm
	Power supply	(V)	DC+12V	±1.0V
General	Power Consume	(W)	Max.≤10W	Type.=7W
	Work temp	(°C)	-20 ~ +50	
feature	Storage temp	(°C)	-40 ~85	
	Work relative temp	(%)	5~95	
	Size	(mm)	132×98×24	

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