6.0 PRODUCT SERIES

Model	Input Wavelength	CATV Work wavelength	Data pass wavelength	Fiber connector
B9428/NC	1310 or 1550nm	1210~1600nm	-	SC/APC
B9428/WD	1310, 1490/1550nm	1540~1560nm	1310/1490nm	LC/APC
B9428/WF	1310, 1490/1550nm	1540~1560nm	-	SC/APC

7.0 MODEL EXPLANATION

B 9 4 28 / □□ – □□ – □

FTTx Receiver		Work bandwidth		Number of RF output		Output level (Pin=-2dBm)		CWDM		Optical connector		Exterior	
B	FTTB	9	47~862MHz	4	4ports	28	28dBmV(88dBμV)	NC	Without	LA	LC/APC	A	A type
H	FTTH	1	47~1000MHz					WD	Build-in CWDM	SA	SC/APC	B	B type
P	FTTP	2	47~1200MHz					WF	Build-in Filter				

8.0 NOTE

1. The power adapter for this equipment: Input 220V, output DC 12V(0.6A)

2. Keep the optical connector clean, the bad link will cause too low RF output level

3. The built-in RF adjustable attenuator(PAD) of equipment can debug suitable level for system users .User Should not adjust by themselves, to avoid the device damage.

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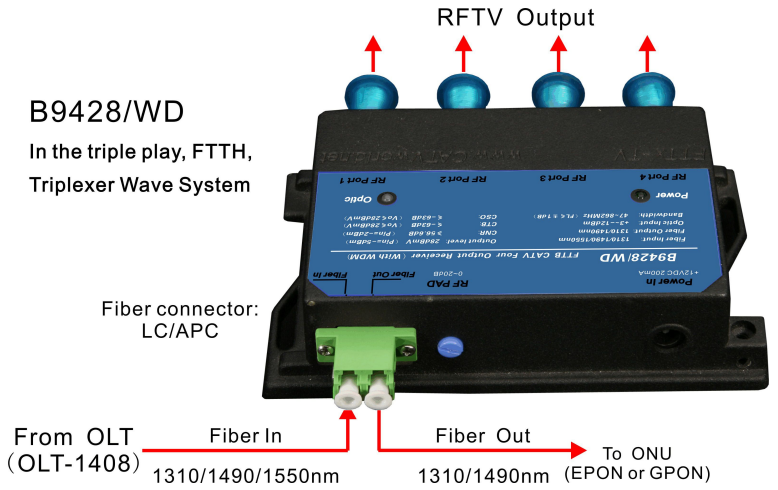
B9428、B9428/WD、B9428/WF

FTTP Four outputs CATV optical receiver

(Pin=-16dBm、Vo≥74dBμV、MER≥34dB)

47~862MHz



User Manual

Ver. 2.4. en

Service：0571-85029486 www.catvworld.net

1.0 PRODUCT DESCRIPTION

B9428 product series, 47~862MHz operate bandwidth, output level Vo=88dBμV (Pin=-2dBm), suitable for FTTP optical fiber access network, which is a low power consumption, high performance, and excellent cost performance RFTV broadcast network ONU(Optical network unit).

This series of product adopts high sensitivity receiving tube and special low noise matching circuit Under 3.8% modulation, when transmitting in full channels and with receiving power of -10dBm, the CNR can still reach high index of 45dB. Therefore, if adopting B9428, it is only need very low optical power to reach 45dB CNR required by the user.

The product built-in RF inter-stage gain adjustment. All receiving optical power in the range of +3dBm to -12dBm has good linearity. According to different receiving optical power, the user can choose high CNR and suitable output level.

B9428 optical port have following three modes:

B9428/NC: RFTV operates in 1210~1600nm wavelength.

B9428/WF: built-in channel filter, RFTV operating in1550nm wavelength.

B9428/WD: built-in CWDM, RFTV operating in 1550nm wavelength, reach GEPONONU through 1310/1490nm wavelength.

2.0 PRODUCT FEATURE

1. Extra-low noise (3.8% modulate, -10dBm receive, CNR ≥ 45dB)
2. All receiving optical power in the range of +3dBm to -12dBm has good linearity
3. In the range of 47~862MHz, all have good flatness (FL≤±1.0dB)
4. Built-in inter-stage gain adjustment, can choose high CNR and suitable output level according to different receiving optical power.
5. Four-way high level output, can supply service for more users
6. Zinc. die-casting all-in-one metal shell, supply safeguards to opto-electrical sensing device
7. Low power consumption, high cost performance

3.0 Main application

1. FTTH,FTTP, FTTO
2. FTTC, FTTN
3. HFC

4.0 PRODUCT FEATURE

1. 1. Input optical power status indicator : ≤-13dB LED off
   +3dBm ~ -12dBm Green
   +3dBm Red
2. Power supply indicator: Turn on Green
   Turn off LED off

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5.0 TECHNICAL INDEX

Performance			Index	Supplement
Optic feature	CATV Work wavelength	(nm)	1210~1600	B9428
			1540~1560	B9428/WF,,B9428/WD
	Pass wavelength	(nm)	1310，1490/1550	
	Channel Isolation	(dB)	≥40	1550nm & 1490nm
	Responsibitity	(A/W)	≥0.85	1310nm
			≥0.9	1550nm
	Receiving power	(dBm)	+3~-12	
	Optical return loss	(dB)	≥55	
	Optical fiber connector		SC/APC	B9428/WD:LC/APC
RF Feature	Work bandwidth	(MHz)	47 ~ 862	
	Flatness	(dB)	≤±1.0	
	Output level	(dBμ	>88	Pin=-5dBm
	Output level adjust	（dB）	0~18	MGC
	Return loss	(dB)	≥14	47 ~ 862MHz
	Output impedance	(Ω)	75	
	Output port number		4	
	RF tie-in		F-Female	
Link Feature	Test channel	(CH)	59CH(PAL-D)	
	OMI	(%)	3.8	
	CNR1	(dB)	56.6	Pin=-2dBm
	CNR2	(dB)	46.5	Pin=-8dBm
	CTB	(dB)	≤-63	Vo≤88dBμV
	CSO	(dB)	≤-63	Vo≤88dBμV
	HUM	(dB)	≤-60	
General feature	Power supply	(V)	+12VDC	±1.0V
	Power Consume	(W)	≤3	+12VDC,190mA
	Work temp	(℃)	-20 ~ +50	
	Storage temp	(℃)	-40 ~ 85	
	Work relative temp	(%)	5 ~ 95	
	Size	(mm)	118×73×29	(W)×(D)×(H)