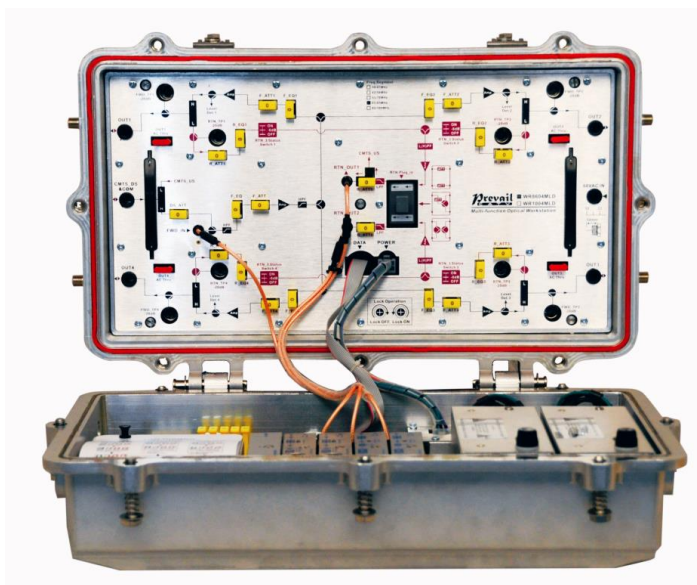


Nodo Óptico 1GHz – 4 Salidas Independientes 54dB.

Prevail
CATV



DESCRIPCION

Nodo óptico 1GHz - 4 Salidas
Independientes 54 dB Redundante

MODELO

WR1004MLD-GD2R

CODIGO WT

4281118

Casa Central

Domingo French 831, B1603BNI, Villa Martelli, BS AS, Argentina
Tel: (54) 011-4709-6650
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Diaguitas 3138, Córdoba, CP 5008, Argentina
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sucursalcordoba@wiretechsa.com.ar

1 - APLICACIÓN

El nodo óptico para exteriores WR-1004MLD-GD2R, esta configurado con 2 módulos receptores ópticos de Directa, 2 módulos transmisores ópticos de Retorno, 1 módulo de transponder Ethernet y 2 módulos de fuente de alimentación de conmutación .
Adopta tecnología AGC óptica.

2 - CARACTERÍSTICAS

La recepción óptica de Directa, adopta tecnología AGC óptica avanzada, el rango de potencia óptica de entrada se extendió a $-8 \sim +2$ dBm.
Ancho de banda operativo de RF extendido a 1 GHz, nivel de salida máximo en cada puerto, hasta 114dB μ v.

□ El circuito de control de atenuación y equilibrio adopta un insertador fijo y logra un monitoreo remoto mediante NMS.

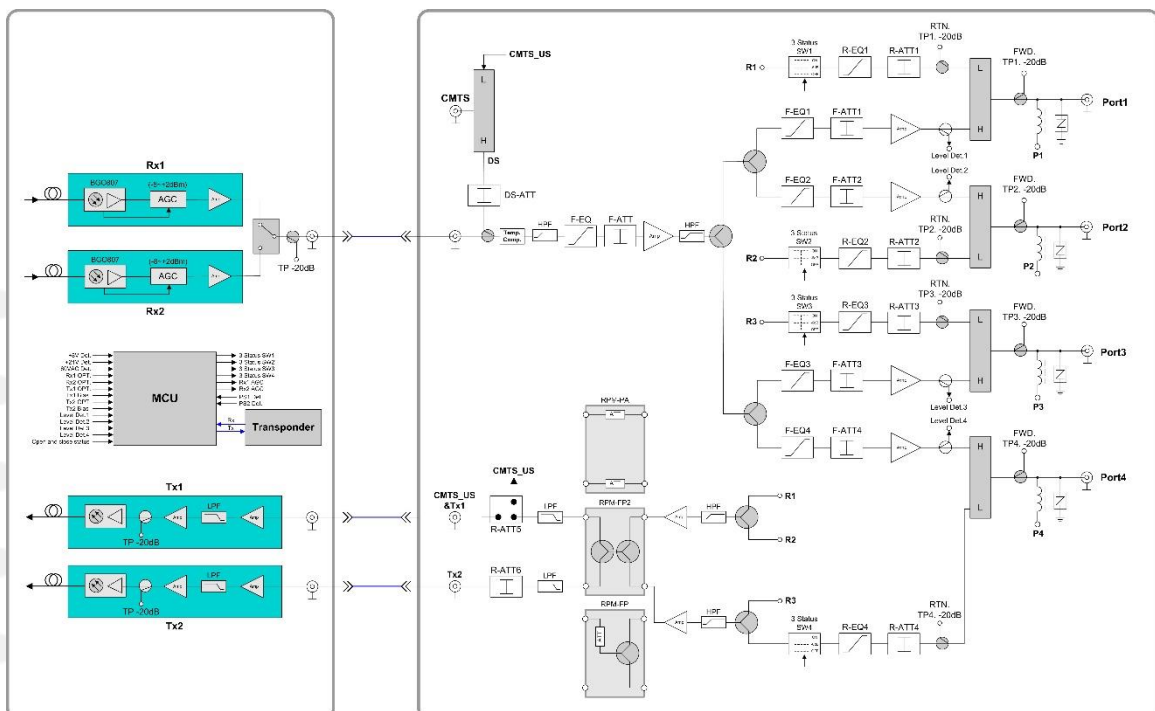
El amplificador de RF de diseño modular de enchufe rápido, permite reemplazar rápidamente el módulo del amplificador de RF sin desmontar el conector de RF.

□ Circuito de monitoreo y soporte de transponder Ethernet.

Circuito de interruptor de compuerta de tres estados incorporado en ruta de retorno.

El transponder de gestión de red puede configurar de forma remota el paso de tres estados, -6dB y OFF.

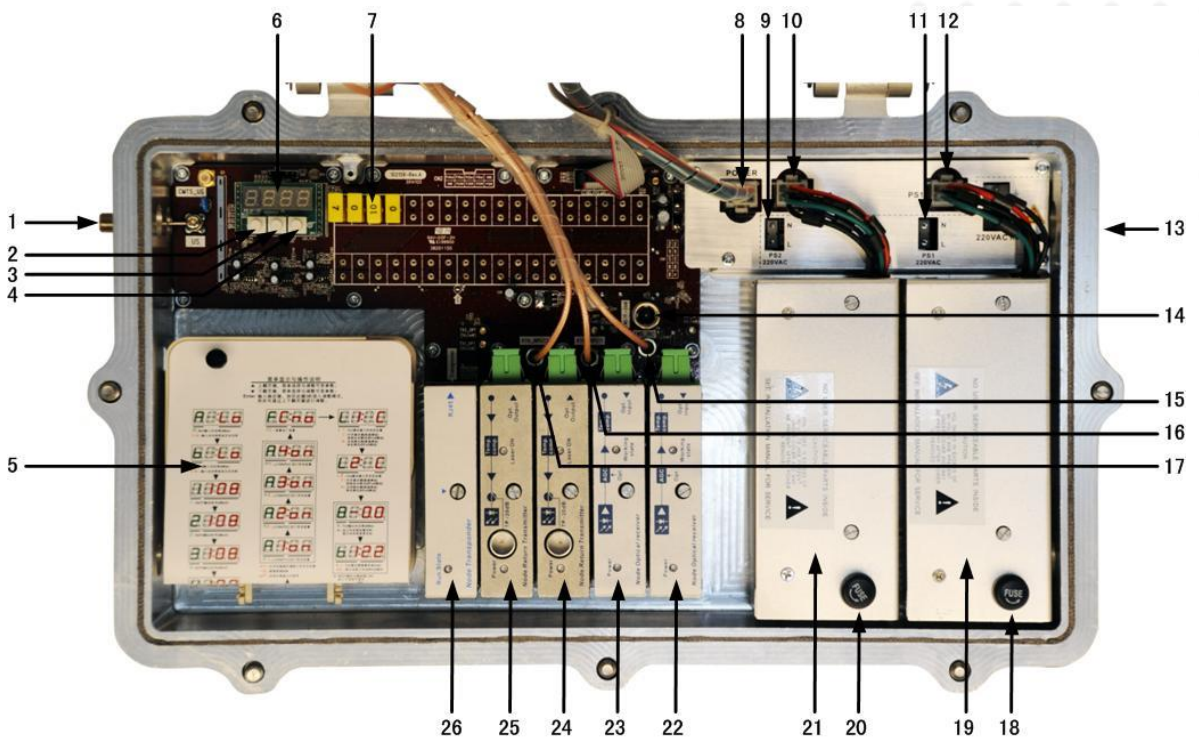
3 – Diagrama modular



4 – Especificaciones Técnicas

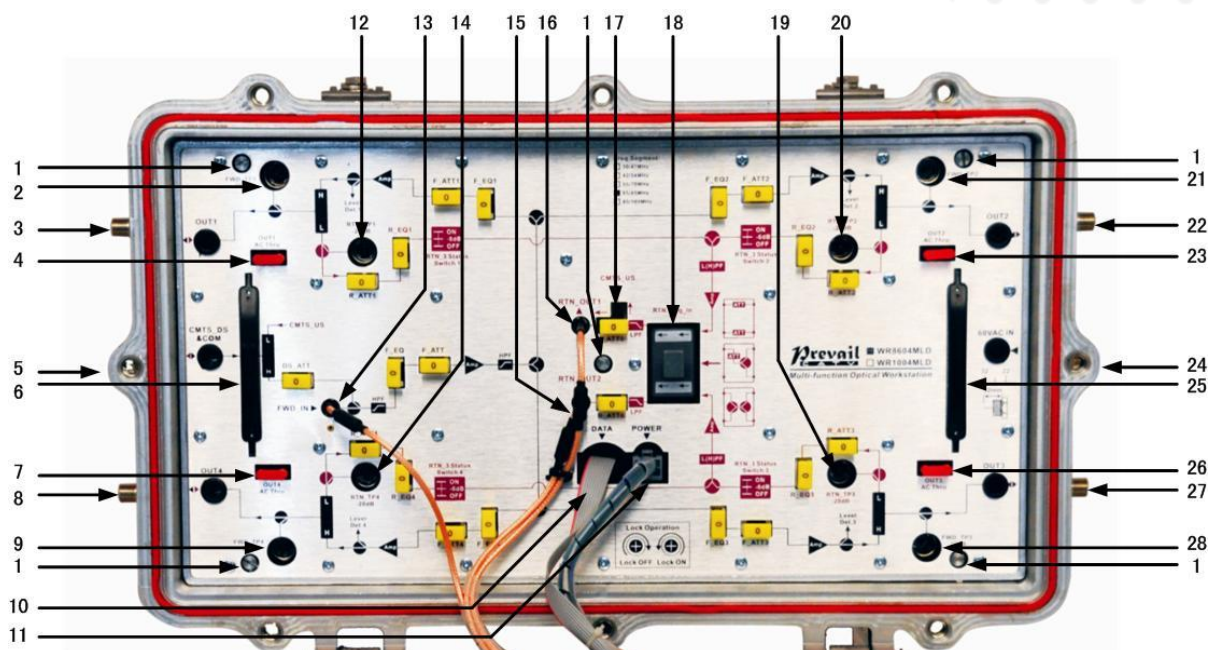
Item	Unit	Performance Parameters	
Forward Part			
Optical Parameters			
Optical AGC control range	dBm	+2~-8/-7/-6/-5 adjustable	
Optical Return Loss	dB	>45	
Optical Receiving Wavelength	nm	1100 ~ 1600	
Optical Connector Type	—	FC/APC, SC/APC or specified by the user	
Optical Fiber Type	—	Single mode	
Link Performance			
C/N	dB	≥ 51	-1dBm optical input, output level 108dBμV, EQ 8dB
C/CTB	dB	≥ 65	
C/CSO	dB	≥ 60	
RF Parameters			
Frequency Range	MHz	45/85 ~862/1003	
Flatness in Band	dB	±0.75	
Rated Output Level	dBμV	≥ 108 (when the optical AGC control range is +2~-8)	
Max Output Level	dBμV	≥ 114 (when the optical AGC control range is +2~-5)	
Output Return Loss	dB	(85 ~550MHz) ≥16 / (550~1000MHz) ≥14	
Redundant Receiver Isolation	dB	≥75	
Output Impedance	Ω	75	
Return Part			
Optical Parameters			
Optical Transmit Wavelength	nm	1310±10, 1550±10 or specified by the user	
Laser Type	—	DFB or FP laser	
Output Optical Power	mW	1	
Optical Connector Type	—	FC/APC, SC/APC (or specified by the user)	
RF Parameters			
Frequency Range	MHz	5 ~ 65 (or specified by the user)	
Flatness in Band	dB	±0.75	
Input Level	dBμV	75~ 85	
Input Return Loss	dB	≥16	
Independent Transmit Isolation	dB	≥60	
Input Impedance	Ω	75	
NPR dynamic range	dB	≥15 (NPR≥30 dB)	≥10 (NPR≥30 dB)
		Use DFB laser	Use FP laser

5 – Distribución Modular Óptica



- | | |
|--|--|
| 1. CMTS return path output | 2. Up key |
| 3. Down key | 4. Enter key |
| 5. Operating instructions and fiber splice tray | 6. Nixie tube display screen |
| 7. Inserter | 8. Redundant power output |
| 9. Power module 2 220Vac socket | 10. Power module 2 socket |
| 11. Power module 1 220Vac socket | 12. Power module 1 socket |
| 13. 220Vac input | 14. The RF output test port (-20dB) of forward path optical receiver modules |
| 15. RF output of forward path optical receiver modules | 16. The RF input interface of return path optical transmit modules 1 |
| 17. The RF input interface of return path optical transmit modules 2 | 18. Power 1 fuse |
| 19. Power module 1 | 20. Power 2 fuse |
| 21. Power module 2 | 22. Forward path optical receiver modules 1 |
| 23. Forward path optical receiver modules 2 | 24. Return path optical transmit modules 1 |
| 25. Return path optical transmit modules 2 | 26. NMS transponder module |

6 – Distribución Placa de RF



- | | |
|--|--|
| 1. Fixed screw | 2. Port1 forward path output test port (-20dB) |
| 3. Port 1 | 4. Port 1 feed fuse |
| 5. CMTS forward path IN | 6. Handle * |
| 7. Port 4 feed fuse | 8. Port 4 |
| 9. Port 4 forward path output test port (-20dB) | 10. Data interface |
| 11. Main board power input | 12. Port 1 return path input test port (-20dB) |
| 13. Forward path RF input | 14. Port 4 return path input test port (-20dB) |
| 15. Return path RF output 2 | 16. Return path RF output 1 |
| 17. Mode setting and attenuation jumper | 18. Return path components |
| 19. Port 3 return path input test port (-20dB) | 20. Port 2 return path input test port (-20dB) |
| 21. Port 2 forward path output test port (-20dB) | 22. Port 2 |
| 23. Port 2 feed fuse | 24. AC60V independent feed port |
| 25. Handle * | 26. Port 3 feed fuse |
| 27. Port 3 | 28. Port 3 forward path output test port (-20dB) |