

ARRIS PWL 41xxT

PWRLINK II DFB 1310 NM-TRANSMITTER

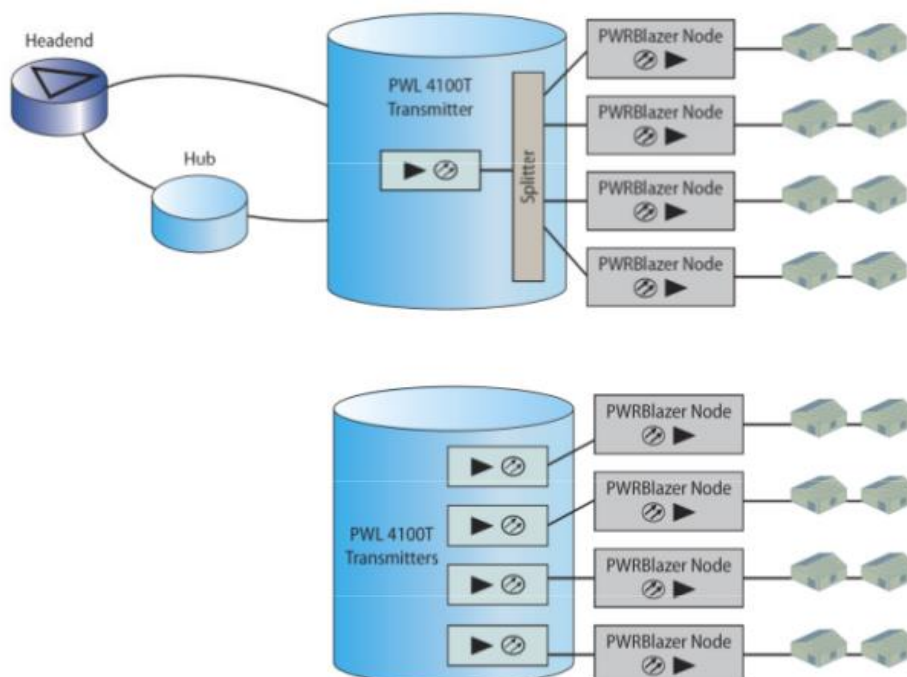


Aurora's PWRLink II is a family of 1310 nm DFB laser transmitter modules. The PWRLink II transmitter modules are very compact with 10 transmitter modules fitting into a single three-rack unit high HLP 4800/4200 platform. The transmitter modules fit into the platform via the HMC 4000 module carrier adapter. Set up is possible in three ways:

- via the HLP 4800/4200WD platform front panel menu
- the RF adjustment on the module front panel
- an Element Management System

FEATURES

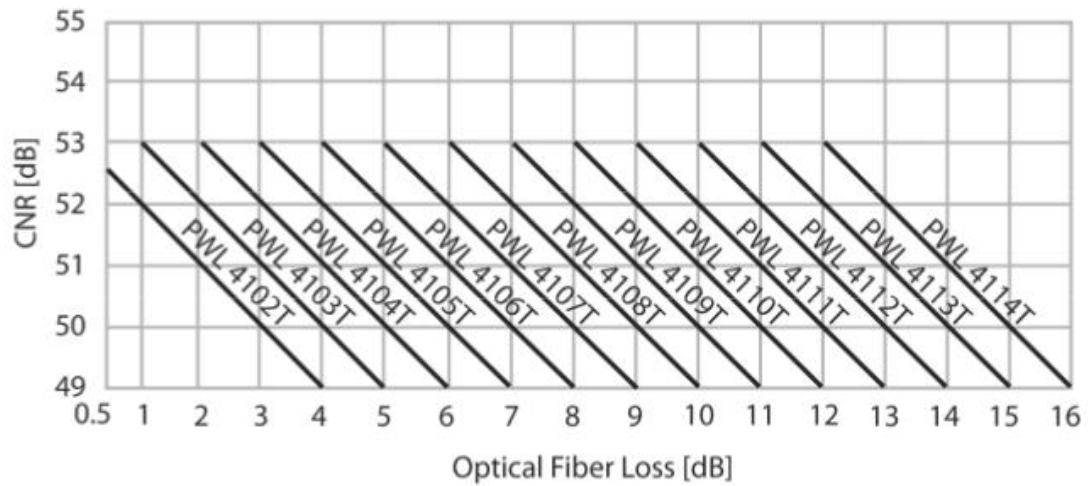
- Automatic or manual gain control simplifies operation
- Auto setup feature simplifies installation
- Integrated RF pre-amplifier
- Shares common platform with Aurora's MAXLink 1550 nm transmission system
- Compact size enables 10 DFB transmitters to fit in a 3 RU platform
- Advanced predistortion circuitry and algorithm for both CTB and CSO
- Integrated element management with SNMP compatibility
- Microprocessor control of all key parameters
- Simple plug&play operation reduces time and cost of installation



SPECIFICATIONS

PHYSICAL	
Dimensions (WxHxD)	3,3 cm x 11,2 cm x 32,2cm
Weight	0,95 kg
Mounting	HLP 4800/ 4200 platform; via HMC module carrier
Optical connector type	SC/APC
RF connector type	Standard F, RG-59 cable type (accepts 0,64 - 0,8 mm center conductor diameter)
ENVIRONMENTAL	
Operating Temperature	0° to + 50°C
Storage Temperature	- 40° to + 70°C
Relative Humidity	maximum 85% non-condensing
Software over temperature laser protection	
POWER REQUIREMENTS	
Nominal	+ 24 VDC; supplied by HLP 4800/ 4200 bus
Consumption	22 Watts maximum
USER INTERFACE	
Frontbedienfeld / Front panel	
Bi-state status LED	normal = green, alarm = red
Module selection indicator	yellow LED
RF Attenuation adjustment	
Testpunkt / Monitor point	
Laser RF drive monitor	
Flatness	± 1,0 dB
Return loss	> 16 dB
Connector type	standard female F
Level	- 20 ± - 0,5 dB below input
RF INPUT	
Input level range per unmodulated analog channel, PWL 4102T - PWL 4114T	16 to 22 dBmV
Operational Bandwidth	45 to 1003 MHz
Frequency Response	< 1 dB peak-to-valley
RF Attenuator Adjustment Range	Adjustment range 10 dB
Impedance	75 Ω
Return Loss	> 16 dB
Level Control	manual (MGC)/automatic (AGC)
Autosetup-Funktion / Auto setup feature	
OPTICAL OUTPUT	
Wavelength	1300 – 1320 nm
Model	Optical Power (dBm)
PWL 4102T	2,5 ± 0,5
PWL 4103T	4,0 ± 0,5
PWL 4104T	5,0 ± 0,5
PWL 4105T	5,5 ± 0,5
PWL 4106T	6,0 ± 0,5
PWL 4107T	7,0 ± 0,5
PWL 4108T	8,0 ± 0,5
PWL 4109T	9,0 ± 0,5
PWL 4110T	9,75 ± 0,75
PWL 4111T	10,5 ± 1,0
PWL 4112T	11,0 ± 1,0
PWL 4113T	11,5 ± 1,0
PWL 4114T	13,0 ± 1,0
LINK PERFORMANCE	
Carrier-to-CSO 1,3 > 64 dB	
Carrier-to-CTB 1,3 > 68 dB	

Estimated PWL 4100T CNR vs. Optical Fiber Loss – 76 PAL B/G Channels ^{1,2}



1. Channel loading: 76 unmodulated PAL B/G channels and 100 MHz digital at - 10 dBc.
2. Optical link defined as PWRLink II transmitter + 100 % fiber link + HRM 3811 receiver.

ORDERING INFORMATION

MODELS AVAILABLE	
PWL 41xxT-zz	xx = Model number (02 to 14) zz = Connector type (AS, AF, US, UF or AE)