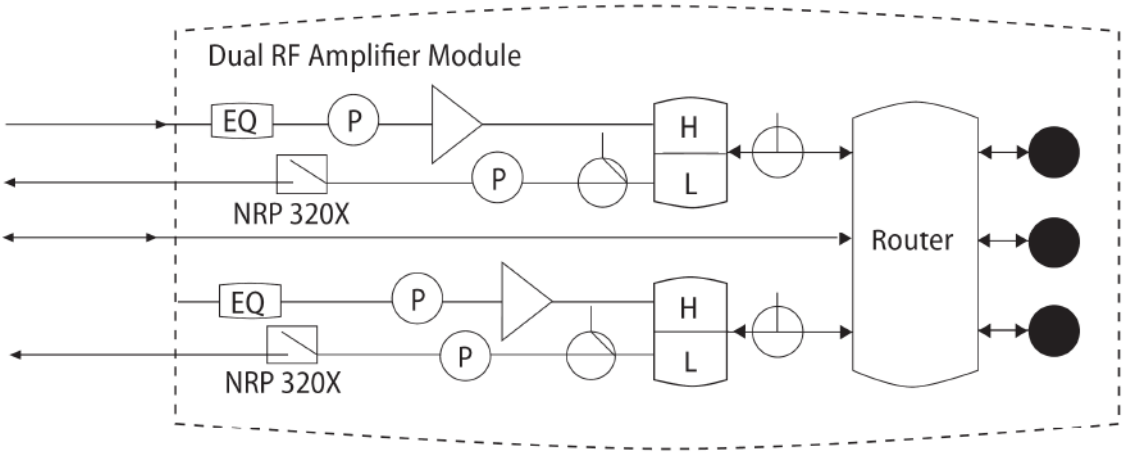
ARRIS NOM 3121A

PWRBLAZER SCALEABLE NODE OUTPUT MODULE

The PWRBlazer NOM 3121A Node Output Module provides RF and power functionality within a PWRBlazer optical node out to 1 GHz. The PWRBlazer node can accommodate one or two NOM 3121A node output modules. Since each output module provides one or two outputs, each node can be configured with anywhere from one to four outputs. An additional port is available on each module for either direct return input or dedicated powering. All modules feature high isolation to allow for distinct information content on each port, high forward to return isolation to allow maximal use of the return path, and GaAs amplifiers for high performance and low power consumption. An optional remote management interface card can be added to the modules which controls the return mute attenuators via the NETWatch Element Management System. The NOM 3121A has one or two inputs, and two outputs. Each output has its own active device. The NOM 3121A has two separate return paths.

STANDARD CONFIGURATION



MODEL	RETURN	FORWARD	PORT 1	PORT 3	PORT 2
NOM 3121A-30	Mai.30	46 – 1003	Bridger/Trunk Level	Power/Return	Bridger /Trunk Level
NOM 3121A-42	Mai.42	52 – 1003	Bridger/Trunk Level	Power/Return	Bridger /Trunk Level
NOM 3121A-65	Mai.65	85 – 1003	Bridger/Trunk Level	Power/Return	Bridger /Trunk Level

Bridger/Trunk Level = Port is used for RF output/input and power.
Power/Return = Port is used either as a dedicated power port permanently connected to AC bus #1 (no RF) or port is used for direct return input (no power).

© 2019 Normann Engineering GmbH • Linzer Str. 139 • A-4600 Wels • T +43 (0) 7242 70 921-0 • office@normann-engineering.com • Irrtum, Satz- und Druckfehler vorbehalten

SPECIFICATIONS

PLUG-IN OPTIONS	
Pads in forward and return path	
Slope equalizer for each forward output	
Jumper connection	
Element management enhancement module	
Return plug-in	see HLN accessories data sheet
FORWARD PATH	
Frequency response	± 0,5 dB
Slope (1003/46 MHz)	1,0 ± 0,5 dB
Return loss	16 dB: 45 - 870 MHz 14 dB: 870 - 1003 MHz
Port to port isolation	75 dB: 45 to 550 MHz 65 dB: 550 to 870 MHz 60 dB: 870 to 1003 MHz
Minimum gain	14 dB, typical
Noise figure (46 MHz)	7,5 dB
Noise figure (750 MHz)	8 dB
Hum modulation	- 67 dB
C/CTB	71 dB
C/CSO	74 dB
MONITOR POINTS	
Forward	- 20 dB directional coupler, each port
Return	- 20 dB directional coupler, each port
RETURN PATH	
Operating band from direct return port	5 to 200 MHz
Gain from output ports	- 2,5 dB
Gain from return input port	- 1 dB
Port to port isolation	80 dB between 5 and 200 MHz
Return loss on return port	16 dB
POWER	
AC Current passing	15 A (all power ports)
Maximum power consumption	22 W
PHYSICAL	
Dimensions (WxHxD)	13,2 x 17,8 x 5,6 cm
Weight	0,9 kg

© 2019 Normann Engineering GmbH • Linzer Str. 139 • A-4600 Wels • T +43 (0) 7242 70 921-0 • office@normann-engineering.com • Irrtum, Satz- und Druckfehler vorbehalten