

BOOSTRAL 7720

Segmentable optical node 1x2, 2 active outputs, 1.2 GHz / 200 MHz

FORWARD PARAMETERS

Wavelength	1260 - 1620 nm
Bandwidth	85...258 - 1218 MHz
Optical input power range	-9.9 - 2 dBm
Optical AGC range	-7 - 0 dBm
Flatness ¹	±0.5 dB
Equivalent Input Noise Current ²	5 pA / √Hz
Output level: ³	
CTB ≤ -60 dBc	2 x 117 dBμV
CSO ≤ -60 dBc	2 x 119 dBμV
Umax ⁴	2 x 112 dBμV
Gain limited output level ⁵	2 x 119 dBμV
Number of outputs	2 active

RETURN PARAMETERS

Bandwidth	5 - 65 ... 204 MHz
Flatness ⁶	±0.5 dB
Optical output power ⁷	3 or 6 dBm ± 0.5 dB
Min RF input level to get 10% OMI ⁸	70 dBμV
NPR / Dynamic range ⁹	40 dB / 5 dB











OTHERS

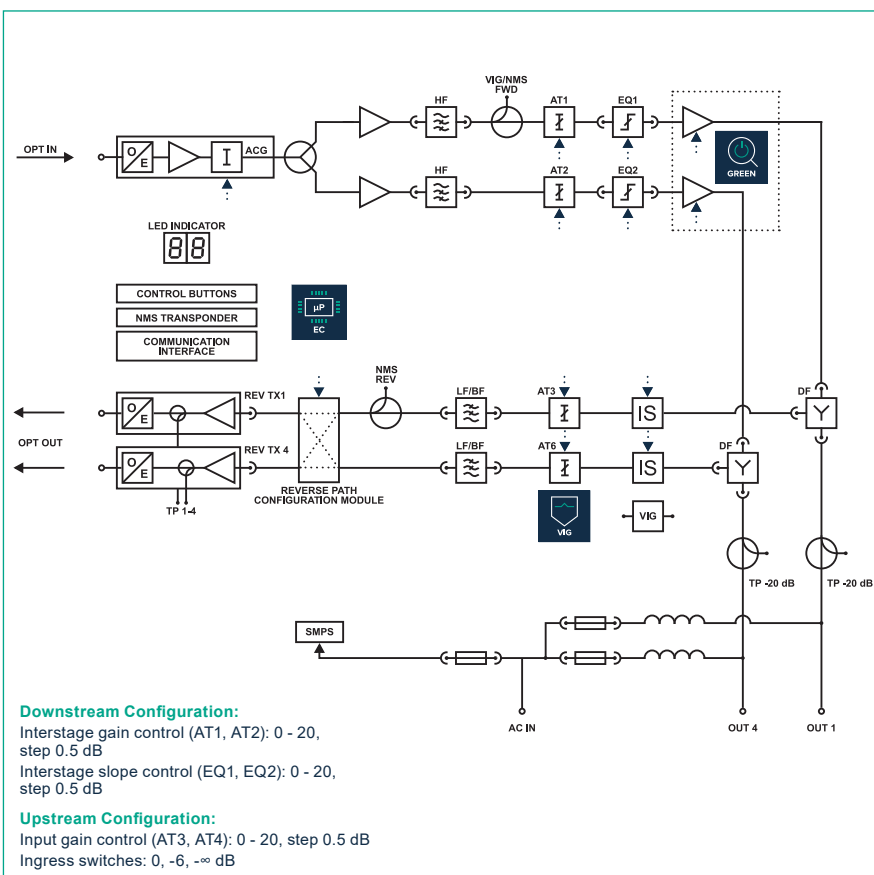
Return loss ¹⁰	> 18 dB
AC voltage range: remote powering	30 - 65 V AC
Max. current for RF / AC IN ports	10 / 15 A
Power consumption ¹¹	< 46 W
Operation temperature range	-40 - 60 °C
Optical connectors	SC / APC
RF connectors	2 x PG11
Protection class	IP 67
Dimensions (W x L x H)	255 x 234 x 128 mm
Weight	< 4.0 kg

AVAILABLE VERSIONS

BOOSTRAL 7720 289Y remote powering; max. config: 1Rx x 2Tx



-  **1.2 GHz technology**
An extended bandwidth in downstream up to 1.2 GHz; DOCSIS 3.1 standard compliant
-  **200 MHz technology**
A possibility of extending bandwidth in upstream up to 200 MHz
-  **GaN Technology**
The Output parameters for analog and digital carriers improved for lower power consumption
-  **Electronic control**
A quick and uninterrupted device configuration
-  **VMC (VECTOR Mobile Commander)**
Convenient and user-friendly configuration through mobile devices
-  **Electronic adjustment**
Easy configuration by using buttons and LED Indicator
-  **NMS transponder**
Reduced operating costs thanks to the remote monitoring and configuration
-  **VIG (VECTOR Ingress Guard)**
System compliant; Verification and elimination of the source of ingress in the network
-  **Integration of optical passives**
A possibility of installing CWDM / DWDM / WDM filters inside the housing
-  **GREEN mode**
A significant reduction of power use thanks to optimization of its consumption



1. In range 85 - 600 MHz; ± 0.75 dB in range 600 - 1006 MHz; ± 1.0 dB in range 1006 - 1218 MHz
2. Typical value; the worst case 6 pA / √Hz
3. According to EN 50083-3, 9 dB slope between 85 to 862 MHz, 42 channels CENELEC, typ. value
4. Full digital load 258 - 1218 MHz, 110 channels QAM 256, 12 dB slope
5. AGC on, 3.25% OMI, -7 dBm optical input level, 1310 nm
6. Up to 85 MHz; ± 0.75 dB up to 204 MHz
7. For CWDM lasers, up to 16 wavelengths are available in 3 dBm version and 8 wavelengths are available in 6 dB version
8. With AT3, AT4 = 0 dB regardless of US configuration
9. Measured with 12dB link (15 km fiber + loss), 60MHz BW noise load, EINC 7pA / √Hz
10. In 5 - 65 MHz; 18 dB for f < 40 MHz; 18 dB -1.5 dB / oct for f > 40 MHz; but > 11 dB
11. 50V AC; Configuration: 1 x FWD Rx, 2 x 6 dBm CWDM lasers, EDGM

Unless otherwise specified, the whole specifications are tested with 65 / 85 diplex filters installed, at room temperature 25°C and present typical values.