

BOOSTRAL 6610

Optical node 1x1H, 1 active output, 1 GHz / 200 MHz

OPTICAL PARAMETERS

Wavelength ¹	1100 -1600 nm
Optical input power range ²	- 8 - 2 dBm
Equivalent input noise current ³	< 5 pA / $\sqrt{\text{Hz}}$

RF PARAMETERS

Forward Channel

Forward bandwidth	54...260 - 1006 MHz
Gain limited output level ⁴	119 \pm 1 dB μ V
Flatness ⁵	\pm 0.75 dB
Slope ⁵	\pm 1 dB
Output level ⁶ :	
CTB \leq - 60 dBc	117 dB μ V
CSO \leq - 60 dBc	117 dB μ V
CNR ⁷	51.5 dBc
Interstage gain control (A1)	0 - 20 step 0.5 dB
Interstage slope control (E1) ⁸	0 - 20 step 0.5 dB

Reverse Channel

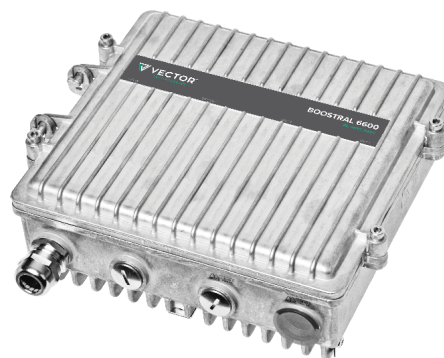
Bandwidth	5 - 42... 200 MHz
Transmitter OMI ⁹	10 %
Flatness	\pm 1 dB
Reverse gain control (A2)	0 - 24 step 1 dB
HUM modulation @ 5A ¹⁰	< -60 dBc

OTHERS

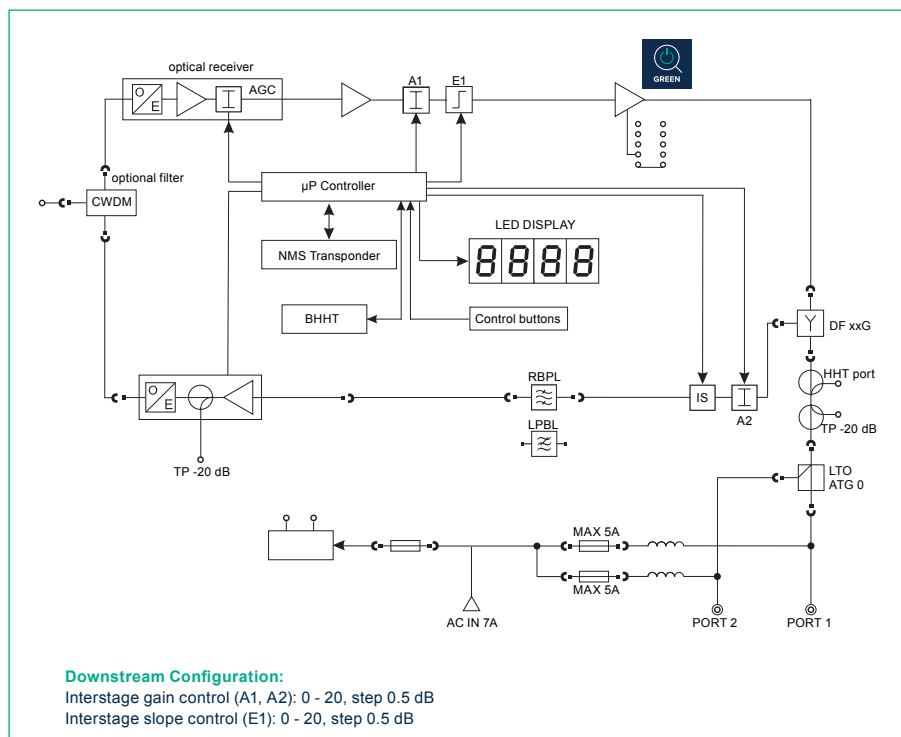
Return loss ¹¹	\geq 18 dB
Test points	- 20 \pm 0.75 dB
AC voltage range:	
remote powering	30 - 65 V AC
mains powering	110 - 230 \pm 10% V AC
Max. current for RF / AC IN ports	5 / 7 A
Power consumption ¹²	< 21 W
Operation temperature range	- 40 - 60 °C
Optical connectors ¹³	SC / APC
Number of RF ports / connectors types	2 / PG11
Protection class	IP 67
Dimensions (W x L x H) ¹⁴	245 x 199 x 90 mm
Weight	2.4 kg

AVAILABLE VERSIONS

BOOSTRAL 6610	remote powering
BOOSTRAL 6610	mains powering



- 1 GHz technology**
An extended bandwidth in downstream up to 1 GHz
- 200 MHz technology**
A possibility of extending bandwidth in upstream up to 200 MHz
- FTTB (Fiber To The Building) design**
To be used in a modern FTTB architecture
- GaN Technology**
The Output parameters for analog and digital carriers improved for lower power consumption
- HHT (Hand Held Terminal) support**
A quick and intuitive configuration of devices; the electronic documentation of the network
- Electronic adjustment**
Easy configuration by using buttons and LED Indicator
- NMS transponder**
Reduced operating costs thanks to the remote monitoring and configuration
- CMS compliant**
An easy and convenient process of network documentation thanks to the CMS software
- GREEN mode**
A significant reduction of power use thanks to optimization of its consumption
- Low Noise Receiver**
CAPEX optimization by reducing the number of the required active devices



- Gain limited output level defined for 1310 nm, optical input power indicator calibrated for 1310 nm
- Range of AGC
- < 5pA / $\sqrt{\text{Hz}}$ typical value
- 4.0% OMI/channel, single carrier; input wavelength 1310 nm, AGC = ON
- Measured 10 MHz above diplex filter roll-off and with ATG 0
- According to EN 50083-3, 9 dB slope between 85 to 862 MHz, 42 channels CENELEC, value measured & guaranteed per each product
- Noise bandwidth = 4.75 MHz, input optical power = - 3 dBm, 112 dB μ V output level, AGC = OFF, A1 = A2 = E1 = 0
- Slope defined between 40 MHz and 1 GHz, cable shape equalizer
- For 65 dB μ V at input port (75.5 dB μ V on reverse TP), IS = OFF, reverse attenuator = 0 dB
- f > 15 MHz, room temperature
- 18 dB for 7 MHz \leq f \leq 40 MHz, 18 dB -1.5 dB / oct for f > 40 MHz, but \leq 11 dB
- Sinus 30 V AC, without plug-in modules; with transmitter and NMS transponder < 26 W, Intelligent Power Consumption mode with transmitter < 16 W
- Others on request
- Dimensions with wall mounting hinges: 263 x 227 x 90 mm
- Slope defined between 40 MHz and 1 GHz, cable shape equalizer

Unless otherwise specified, the whole specification is tested with split band 65 / 85 MHz; GREEN = 0; at room temperature 25°C

22/03/2016 Specifications are subject to change without notice.