

Optical parameters

Wavelength	1100 - 1600 nm
Optical AGC range	-8 - 2 dBm
Equivalent input noise current	< 5.5 pA/√Hz

RF Parameters

Forward Channel

Bandwidth	85 / 110 / 260 – 1006 MHz
Gain limited output level ¹	112 ± 1 dBμV
Flatness ²	± 1 dB
Slope ³	± 1 dB
Output level @ 862MHz ⁴ : CTB ≤ -60dBc CSO ≤ -60dBc	110 dBμV 112 dBμV

CNR ⁵	51.5 dBc
Interstage attenuator (A1)	0 - 20 dB
Interstage equalizer (E1)	0 / 9 / 12 dB

Reverse Channel

Bandwidth	5 – 65 / 85 / 200 MHz
Slope	± 1 dB
Reverse attenuator (A2)	0 – 20 dB

Burst Mode

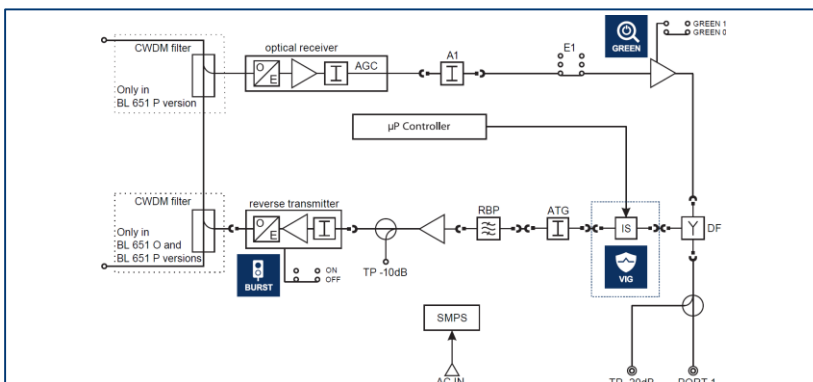
RF input threshold ⁶	75 ± 0.5 dBμV
Optical output power, RF > input threshold ⁷	3 ± 0.5 dBm
Optical output power, RF < input threshold	OFF
Laser rise time	< 1 μs
Laser fall time	< 1 μs

Others

Return loss ⁸	≥ 18 dB
Directional testpoints FWD (REV)	-20 ± 0.75 dB (-10 ± 0.75 dB)
Voltage range: remote powering mains powering	30 - 65 V AC 230 ± 10% V AC
Power consumption ⁹	< 10.5 W
Operation temperature range	-20 - 60 °C
Optical connectors ¹⁰	SC / APC
Connectors	2 x F
Protection class	IP 42
Dimensions (W x L x H) ¹¹	156 x 126 x 74 mm
Weight	1.5 kg

Available versions

BOOSTRAL 651 / LP90G 259M O	mains powering, one fiber
BOOSTRAL 651 / LP90G 259E O	remote powering, one fiber
BOOSTRAL 651 / LP90G 259M	mains powering, two fibers
BOOSTRAL 651 / LP90G 259E	remote powering, two fibers
BOOSTRAL 651 259M P	mains powering, xPON
BOOSTRAL 651 259E P	remote powering, xPON



1GHz technology

Extended bandwidth in downstream up to 1GHz



200MHz technology

Possibility of extending bandwidth in upstream up to 200MHz



GREEN mode – Intelligent Power Consumption

Significant reduction of power consumption through optimization of its use



VIG (VECTOR INGRESS GUARD) system compliant

Verification and elimination of the source of ingress in the network



FTTB (Fiber To The Building) design

Device is designed for use in modern FTTB architecture



BURST mode

Significantly extended laser lifetime, reduced consumption of energy, and noise reduction



Low Noise Receiver

Optimization of CAPEX by reducing the number of required active devices



xPON port

The flexible solution for use in the combined scenarios with xPON network

- 3,25% OMI/channel; one carrier; Pin=-8dBm; wavelength 1310nm; AGC=ON;
- ±1dB up to 862MHz; ±1.5dB up to 1GHz
- Measured between 10MHz above roll-off of DF and 1006MHz; E1=0dB
- With accordance to EN 50083-3, slope 12dB from 40 MHz to 1GHz; CENELEC 42; typ. value
- Noise BW= 4.75, Pin = -3dBm, RF output level 110dBμV; AGC=OFF, A1=A2=E1=0
- With 5dB reverse ATG
- REV Tx 1310 FP 0dBm
- 18dB for 7MHzfs40MHz, 18dB -1.5dB/oct for f>40MHz, but ≤11dB
- Sinus 30VAC; with REV Tx and FWD Rx
- Other on request
- Dimensions with hinges

Unless otherwise specified, all specification is tested with split band 65/85MHz; GREEN =0; temp 25°C

2/4/2014 Specifications are subject to change without notice.