

BOOSTRAL 720

Optical RFoG SDU FTTO micronode, 1 active output, 1.2 GHz / 200 MHz

FORWARD PARAMETERS

Wavelength	1540 ÷ 1565 nm
Bandwidth	85...258 + 1218 MHz
Optical AGC range	- 8 + 0 dBm
Flatness ¹	± 1.0 dB
Equivalent Input Noise Current	< 5 pA / √Hz
Output level ² : CTB ≤ - 62 dBc CSO ≤ - 64 dBc	75.5 dBμV 75.5 dBμV
Gain limited output level ³	75.5 dBμV ± 2 dB

RETURN PARAMETERS

Wavelengths ⁴	8 CWDM
Frequency range	5 + 65...204 MHz
Flatness ⁵	± 1.0 dB
Optical output power: ON OFF	3 ± 0.5 dBm < - 30 dBm
RF input threshold	68.5 dBμV ± 2 dB
Laser rise/fall time ⁶	< 1 / <1 μs
NPR / Dynamic range ⁷	40 dB / 5 dB
Number of outputs	2 with passive splitting

OTHERS

Return loss ⁸	≥ 18 dB
Voltage range: mains powering	external power supply 230 V AC / 12 V DC connected to the 3.5/1.35 DC Power Jack or RF2/PWR IN port
Power consumption ⁹	< 3.0 W
Operation temperature range	0 + 40 °C
Optical connectors	LC / APC with internal shutter
RF connectors type	2 x F-Type Female Un-Treaded
Protection class	IP 40
Dimensions (W x L x H)	148 x 113 x 40 mm
Weight	0.5 kg

AVAILABLE VERSIONS

BOOSTRAL 721 356ML O	external power supply, one fiber, upstream 5 + 65 MHz
BOOSTRAL 721 358ML O	external power supply, one fiber, upstream 5 + 85 MHz
BOOSTRAL 721 351ML O	external power supply, one fiber, upstream 5 + 204 MHz



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



RFoG SDU / FTTH

To be used in a modern RFoG SDU / Fiber To The Home architecture



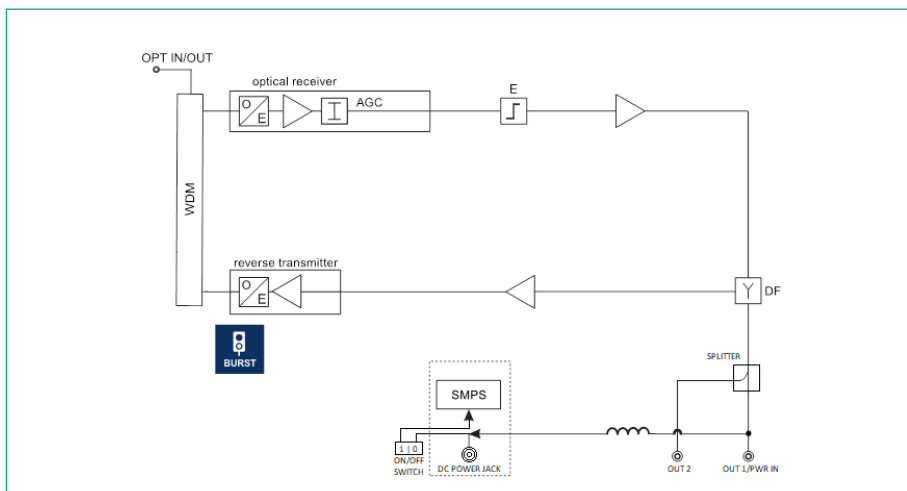
BURST mode

A laser lifetime significantly extended; noise reduction; reduced energy consumption



OBI FREE SYSTEM

Device designed to work in OBI FREE system



- In range 85 + 862 MHz; ± 1.5 dB up to 1218 MHz; typical value
- In accordance to 3 dB slope from 85 MHz to 1218 MHz; CENELEC 42; typical value
- 3,5 % OMI/channel; single carrier; Pin = - 8 dBm; wavelength 1550 nm
- 1371, 1391, 1411, 1431, 1451, 1471, 1511, 1611 [nm]
- Up to 204 MHz; typical value
- European RFoG IEC 60728-14 standard compliant
- Measured with 12 dB link (15km fiber + loss), 60MHz BW noise load, EINC <7pA / √Hz
- In 5 + 65 MHz; 18 dB for f < 40 MHz; 18 dB - 1.5 dB/oct for f > 40 MHz, but not worse than 11dB
- Powered via DC port; power supply consumes additional 1W

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