Emisfera BT System

5012 Serie

DAS 5GHz Amplifier

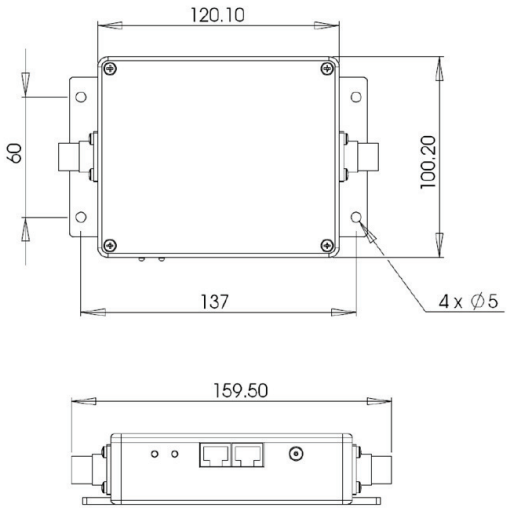
Emisfera BT presents an innovative and affordable technology to perform indoor and outdoor radio coverage systems, for wide logistics and industrial environments.

Application: Thanks to a new RF coverage conception, frequent radio frequency propagation problems, has been solved by this solution. Emisfera BT antennas system performs a properly coverage, where shelves and metal infrastructures, shield the interconnection with handle radio terminal, mobile client and WiFi bar code readers. A passive system of Emisfera BT Antennas helps radio communication, in complex and obstructed environments, as well as warehouse's area, composite buildings, hospitality, tunnels, refrigerated cells or critical interference sites.

Integration: Emisfera BT solution is appropriate to any kind of access point device compliant to 802.11a/b/g/h/n/ac IEEE standard, as new device or recycled from an existing system. Moreover, Emisfera BT antennas are applicable to any kind of radio device operating in the frequency range of 400Mhz – 6Ghz, supporting detached antennas.
Emisfera BT antenna allows an homogeneous propagation signals inside the area of interest, enveloping every object from the above, avoiding "shadow zones" in the radio frequency coverage.

Main advantages: The coverage system provided by Emisfera BT antennas technology, reduce of 2/3 access point device implementation, instead of any traditional coverage system. Additionally Emisfera BT technology brings several technical and economical advantages in wireless network implementation and next follow maintenance. Main advantages are: high reliability, low internal mutual interferences, stability of the signal, quality of client connections, no client roaming disconnection, low infrastructures implementation, security improvement, energy saving, etc...

5GHz BT-AMP-5-POE Indoor Amplifier



Amplificatore POE 5GHz: BT-AMP-5-POE

Technical specifications:

Chassis material	Aluminium
Chassis size [mm]	120 x 100 x 35
Chassis finish	White coat finish
Chassis mountig holes	4 x φ5mm
Connectors DC power	DC jack (5.5mm OD. 2.1mm ID.) and 2 x RJ45(PoE)
Connectors Radio/Antenna	N_female
Power Supply	+48V (PoE)
POE Operation	10/100/1000 Mbps BaseT Mode B
Power Indicators	Green
Transmit Indicators	Red

Supply Voltage	36-57 V
Operating Temperature	-40, +70°C
RF Input Power	+20 dBm
Damage RF Input Power	+23 dBm

Frequency Range	5150-5850 MHz
Receive Gain	12 dB
Receive Noise figure	2 dB
Out of the band supression	30 dB
Receive amplifier 1dB compression point	0 dBm
Transmit Input RF Power	From +6 to +15 dBm
Transmit Gain	17 dB
Peak Transmit RF Output Power	36 dBm
Max supply current	0,12 A
Average Transmit RF Power	30 dBm
ACPR@CH1, 31dBm	-35 dBc
ACPR@CH2, 31dBm	-57dBc
Harmonics	-50 dBm/MHz
Transient voltage protection	λ/4