

# AIR

## Broadband Solutions

Provides robust, high-speed links to far away locations

# AIR-BB NEO BS-540

The AIR-BB NEO range enables ISPs, carriers, businesses and under-served regions to extend network connectivity with a highly scalable Point to Multipoint platform supported by next generation management.

AIR-BB NEO unites high quality Point to Multipoint with management built by network operators for network operators to overcome roll-out obstacles, economic challenges and support issues.

Through integration with RCS, a free network management software, AIR-BB NEO reduces cost and time of deployment, greatly increases ability to troubleshoot remotely whilst also providing users with a wire-like wireless connection.

Due to it's technological and commercial advantages, AIR-BB NEO is widely used by ISPs, carriers, network operators in large-scale networks in under-served markets.

The AIR-BB NEO BS-540 is a single-radio high performance, Point to Multipoint Base Station. Due to it's single radio & high quality 16dBi antenna, the BS-540 is optimised for high capacity short - medium distance multipoint environments.



### About AIR Broadband Solutions

AIR Broadband Solutions is an American International Radio, Inc. company, a major international wireless broadband distributor and system integrator providing professional radio communication products and solutions for different markets, such as: Public Safety, Government, Commercial, Industrial, Oil & Gas, Mining, Transportation, Public Utilities, Airports, Harbours, Municipalities, etc.

AIR provides you with infrastructure services to ensure that your business operates at its best, to reduce or eliminate your workload in managing communication, and to oversee the smooth deployment, implementation and business. Allow us to manage and maintain your wireless program, or deploy it smoothly and effectively. We do this by accessing the world's best technology through our long-standing and strong relationships with the world's leading wireless broadband vendors.

# AIR-BB NEO BS-540

## Technical Specifications

<b>Radio</b>	
Frequency Bands	5.150 – 5.850 GHz
Channel widths supported	5/10/20/40 MHz
Capacity	245 Mbps
Duplex Technique	TDD
Modulation	OFDM, BPSK/QPSK/16QAM/64QAM
Max Tx power	23 dBm
Max Rx sensitivity	-97 dBm
Error Correction	FEC; k=1/2, 2/3, 3/4, 5/6
Encryption	64 and 128 bit WEP encryption, WPA, WPA2 with TKIP or CCMP/AES Chipper
Security	RCS and/or MAC level Authentication
Surge Protection	15kV
Antenna Protection	Internal DC Grounding
DFS	Yes
QoS	Four Access Categories (AC) Voice, Video, Best Effort, and Background. Traffic classification according to WMM
<b>Internal Antenna</b>	
Gain, typ.	16 dBi minimum
VSWR	2:1 (max) 1.7:1 (typ)
Azimuth Beam Width	Port V, 90°(typ) at 11dBi Gain Port H, 90°(typ) at 10dBi Gain
3 dB-Beam-Width	8° (typ)
Polarization	Dual Linear Vertical + Horizontal
F/B Ratio	25 dB (min)
Cross Polarization, max.	-25dB (typ), -15dB (max)
Port to Port Isolation	30 dB (min)
<b>External Antenna</b>	
Connector	NA
<b>Ethernet Interface</b>	
Type	10/100/1000 BaseT Interface with Auto-negotiation (IEEE 802.3)
Number of Ethernet Ports	1
Framing/Coding	IEEE 802.3u
Traffic Handling	MAC layer bridging, self-learning, 802.1q transparent
VLAN ID for Management	Supported
Power over Ethernet	48V DC, 802.3af, <6W typical
Connector	RJ-45
<b>Management</b>	
Management	Web interface
NMS Application	RCS (NMS)
Tools in web interface	Spectrum Analyser
<b>Environment</b>	
IP Code	IP67
Temperature	-40° / +55° C
Size	370 x 370 x 40 mm
Weight per unit	3.7 Kg

