

# NETGEAR, INC.

350 East Plumeria Drive, San Jose, CA 95134, USA

[Tel:408-890-3657](tel:408-890-3657)/[Fax:408-907-8097](tel:408-907-8097)

Product Name: Orbi Router / Orbi Satellite

DUT: FCC ID: PY317400402

FCC ID of previously granted DFS Devices :FCC ID: PY316200341

Required information	FCC ID(s) of Previously Granted DFS Devices <b>PY316200341</b>	FCC ID of New Application <b>PY317400402</b>
Technology(i.e 802.11x,frame based, MIMO, smart antenna, etc.)	MU-MIMO capable for simultaneous data streaming on multiple devices	MU-MIMO capable for simultaneous data streaming on multiple devices
Bandwidth information and differences	Orbi AC3000 Router and AC3000 Satellites - Radio 1: IEEE 802.11b/g/n 2.4GHz-256QAM support - Radio 2: IEEE 802.11a/n/ac 5GHz-256QAM support - Radio 3: IEEE 802.11a/n/ac 5GHz-256QAM support <b>WLAN chip : IPQ40x9 (2.4GHz + 5GHz U_NII 1/2a ) + QCA9984 ( 5GHz U_NII 2c/3 )</b>	Orbi Router and Satellites • Simultaneous Tri-band WiFi - Radio 1: IEEE 802.11b/g/n 2.4GHz-256QAM support : - Radio 2: IEEE 802.11a/n/ac 5GHz-256QAM support - Radio 3: IEEE 802.11a/n/ac 5GHz-256QAM support <b>WLAN chip : IPQ4019 (2.4GHz + 5GHz U_NII 2c/3 ) + QCA9886 ( 5GHz U_NII 1/2a )</b>  <b>The chipset reference is upgraded for functionality not affecting DFS operation.</b>
Antenna information and differences for the minimum gain antennas	<b>Dual-band antenna x2 5GHz band antenna x4 5GHz minimum antenna gain : 3.49dBi</b>	<b>Dual-band antenna x2 5GHz band antenna x2 Same antenna type as previous product 5GHz minimum antenna gain : 4.17dBi</b>
Differences in DFS functioning circuitry, software, etc	<b>FW : V1.4.0.34-0112</b>	<b>There are no differences in DFS functionality or software. FW : V1.12.0.38-DFS-14-20180123</b>  <b>The firmware reference is upgraded for functionality not affecting DFS operation.</b>
Differences between the products such as TX power, modulation, receivers, processing circuitry, etc	<b>maximum power level : 23.24dBm</b>	<b>There are no differences in DFS hardware features. maximum power level : 23.64dBm</b>
Names of the test lab for the various Grants	Test Lab: Bureau Veritas CPS (H.K.) Ltd., Taoyuan Branch	Test Lab: Bureau Veritas CPS (H.K.) Ltd., Taoyuan Branch

-----  
David Kay/ Sr. Regulatory Compliance Manager  
Netgear Incorporated  
TEL: 4088903657  
FAX: 4089078097  
E-mail: david.kay@netgear.com

