

BACL Corporation
230 Commercial Street
Sunny Vale , CA 94085
Sub : Nexus radio PCB Qualification

Dear Sir ,

We have sent our Nexus Unit sB 3010 with Radio Module sB 3001 for qualification of Radio module . The radio module complies with the requirements of FCC part 15 Modular Transmitter Approval as below .

1. The Radio module has its own RF shield . It meets the Radiated emission limits of part 15 on its own .
2. The Data inputs for modulating are buffered by the base band processor before modulating RF . No over modulation is possible by the amplitude or rate of Data input . The OFDM modulation applied to RF changes from 54 MBPs (64 QAM) to 6 MBPs (BPSK)
3. The Radio Module has its own power supply regulator on board .
4. The Radio module uses two unique RF connector type FL for outputting RF .Lo Band output provides 2.400 ~ 2.483 GHz conforming to 802.11g specs . Hi Band output provides 5.25 ~ 5.35 GHz , 5.47 ~ 5.725 GHz conforming to 802.11a . User can connect to the antenna only with FL to N cable provided by smartBridges Pte Ltd .
5. The Radio module is of stand alone type with mini PCI interface . It can be connected to any computer with mini PCI interface .
6. The Radio Module is installed in Nexus unit which will have a label " Unit contains module with FCC ID : PWG NEXUS2 "
7. The Radio Module is intended for use with Nexus unit under FCC 15.247 and FCC 15.407 providing point to point and point to multipoint wireless links . The operating requirements are described in the user manual enclosed for the Nexus unit .
8. The Radio Module complies with the RF exposure requirements .
9. The module complies with the requirement of FCC 15.407(c) . This is part of 802.11 a,g,b specification . The device automatically stops transmissions if the associated client device stops working or switched off . Only beacon signals are sent out to look for client devices as per 802.11 specs . No continuous transmission is available when the RF link is broken .

Cont'd

So We request our Radio Module SB 3001 be tested and qualified as modular transmitter.

Thanks and Best Regards,



C.J. Balakrishnan , Engineering Director , 4 Jul , 2005 .