



Motorola Point to Point Fixed Wireless Solutions  
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Devon  
TQ9 6SH

27 April 2009

**American TCB  
Europe**

For the attention of Michael Derby

Dear Sir

**RE: REQUEST FOR A CLASS II CHANGE**

Motorola would like to request a Class II change for a product already certified by the FCC and Industry Canada. Details and supporting evidence are given below or attached to this request.

**1 Products Covered**

PTP49600 Wireless Ethernet Bridge

This operates in the band Public Safety Band (4940MHz to 4990MHz) and is currently approved under

- FCC Part 90 with FCC ID: QWP49100, and
- Industry Canada Specification RSS-111 with IC ID: 109AO-49100 (covers WB3221, WB3222 Integrated and Connectorised Variants)

**2 Reason for Change**

The change is requested to cover two areas of change that Motorola wants to introduce into the product:

- a) Increased Data rate in the 20MHz Bandwidth mode
- b) Replacement devices in the transmitter chain

Full details of the proposed changes are given in the updated Theory of Operation (phn-1306) which is attached to this application

### 3 Certification Testing

In support of the Class II Change request, Motorola has repeated tests needed to show any change in performance compared to the product initially tested. The additional testing required was chosen on the basis that:

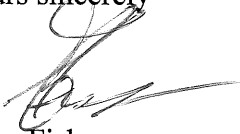
- a) The increased data rate in the 20MHz Channel Bandwidth mode involves no hardware changes; the product initially approved did not make full use of the allowed 20MHz Bandwidth. The modulator has been upgraded to make full use of the existing hardware.
- b) The amplifier devices changed in the transmitter chain are direct replacements for the original parts and their location in the transmitter chain means that they will have no impact on power output, transmitter noise figure, spectral mask, or transmitter spuri.
- c) No changes have been made to the frequency determining circuits

On this basis it is believed that by repeating all the conducted transmitter tests in all the allowed channel bandwidths (with the exception of measuring the frequency accuracy) it can be demonstrated that the performance declared in the original submission is essentially unchanged apart from those resulting from the increased Data rate on the 20MHz channel bandwidth. However, Motorola believes that the 20MHz data rate upgrade does require a Class II change be submitted.

The testing has been completed by RFI-Global and their test report RFI/RPT2/RP74951JD01A is attached in support of the request.

I hope that the information above and attached is sufficient to allow the Change to be processed but if you require any additional information, please let me know.

Yours sincerely



Clem Fisher  
RF Development Manager  
Motorola Fixed Point to Point Wireless Solutions Group