

To: Andrew Leimer / FCC Application Processing Branch  
 From: Richard Mullen / Panasonic  
 FCC ID: ACJ9TGCF-195  
 Applicant: Panasonic Corporation of North America  
 Subject: Personal Computer CF-19+BT+WLAN+HSDPA

PO Control No.	Equipment Type and FCC Rule Part	731 Confirmation No.	CRN
ITPD-07-F003A	BT Part 15C	EA700355	
ITPD-07-F003B	WLAN Part 15C	EA701914	
ITPD-07-F003C	UNII Part 15E	EA650479	33212
ITPD-07-F003D	EVDO Parts 22H, 24E	EA909278	

FCC comment issued June 11, 2007:

1) The cover letter mentions vehicle-mount option antenna. Verify that the highest gain of each antenna type was tested for EMC. You also may need some type of interlock to ensure vehicle-mount does not transmit in 5.15-5.25 GHz (indoor-only allowed). Please explain.

FYI: The sample call will be tested after the Grant is issued. This is not meant to be a pre-Grant sample but as a post-Grant sample since this is a client device.

Panasonic answer issued on June 13, 2007):

Yes, the highest gain of each antenna type was evaluated during EMC tests. The optional Car Mounter Model CF-WEB184 (vehicle-mount) is not marketed to the general public and is intended for specific/unique applications, which require professional installation. The vehicle-mount is provided with two TNC connectors for WLAN and WWAN external antennas. One antenna connector is for Radiall/Larsen WLAN Base Whip antenna, type NM05E2400BKTNC with 5dBi antenna gain. The other antenna connector is for licensed radio service WWAN antenna and has maximum recommended antenna gain of 9.85 dBi for 824.7~848.31 MHz and 8.34 dBi for 1851.25~1908.75 MHz operation.

The User Manual and Supplemental User Manuals provide all the required instructions and warning notices. This includes, but not limited to the following:

- This product is restricted to indoor use due to its operation in the 5.15 to 5.25 GHz frequency range.
- FCC requires this product to be used indoors for the frequency range 5.15 to 5.25 GHz to reduce the potential for harmful interference to co-channel Mobile Satellite systems.
- High power radars are allocated as primary users of the 5.25 to 5.35 GHz and 5.65 to 5.85 GHz bands. These radar stations can cause interference with and /or damage this product.
- This equipment is provided with external antenna connector(s) for connection to optional Car Mounter or Port Replicator for mobile external mounted antenna(s).
- External antenna(s) must be professionally installed and cannot exceed recommended maximum antenna gain as described in individual provided supplement instructions for wireless transmitters. Also, user must maintain minimum 20 cm spacing between external antenna(s) and all person's body (excluding extremities of hands, wrist and feet) during wireless modes of operation.
- WLAN external antenna connector is intended for connection to Radiall/Larsen WLAN Base Whip antenna, type NM05E2400BKTNC with 5 dBi antenna.
- WWAN external antenna connector is intended for professional installation and should not exceed maximum antenna gain of 9.85 dBi for 824.7~848.31 MHz and 8.34 dBi for 1851.25~ 1908.75 MHz operation.