

**Information about the Applicant**

|                                |   |
|--------------------------------|---|
| <b>Company Name</b>            | Logitech Inc                                |
| <b>Address</b>                 | 6505 Kaiser Drive                           |
| <b>City, State, Zip</b>        | Fremont, California 94555                   |
| <b>Requested By</b>            | Mitchell Phillipi                           |
| <b>Job Number</b>              | LABT0056.1                                  |
| <b>Model</b>                   | F-0131B                                     |
| <b>FCC ID</b>                  | DZLF0131B                                   |
| <b>IC Certification Number</b> | N/A   |
| <b>Agent</b>                   | None  |
| <b>Approval Type</b>           | Original Grant                              |
| <b>Equipment Type</b>          | Part 15, Low Power Transceiver, RX Verified |
| <b>Rule Part</b>               | 15.249                                      |

**Overview**

The applicant's radio device is a low power transceiver operating in the 902-928 MHz band seeking authorization under 15.249. It is a dongle attachment to Ericson cellular phones and is part of a communications system that includes an ear-bud style headset. The system provides hands-free wireless communications for cell phone users. The dongle and headset are certified separately.

**Recommendation**

All items have been resolved and completed to my satisfaction; therefore I recommend this application for approval.



September 16, 2003

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Gregory V. Kiemel, Director of Engineering

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Date

## Findings and Resolution

|                   |  |
|-------------------|--|
| <b>Item</b>       | Antenna Info exhibit does not describe the part no, or manufacturer  |
| <b>Resolution</b> | Information provided in revised antenna info exhibit   |
| <b>Item</b>       | Include only information for the radio described in this application   |
| <b>Resolution</b> | Information for other radios was removed from the application  |
| <b>Item</b>       | The cover letter was unclear as to which device is seeking authorization under FCC ID DZLF0131B.   |
| <b>Resolution</b> | A revised cover letter was submitted that specified the device seeking authorization   |
| <b>Item</b>       | Internal photos exhibit did not show or indicate the antenna.  |
| <b>Resolution</b> | A revised antenna info exhibit showed antenna and its location in the radio.   |
| <b>Item</b>       | Conflicting information regarding frequency range of the device.   |
| <b>Resolution</b> | The test report and frequency block diagram were revised   |
| <b>Item</b>       | The test report stated the radio was tested in an unmodulated CW mode only.  |
| <b>Resolution</b> | A revised test report included additional scans and testing with modulation.   |
| <b>Item</b>       | The field strengths of the fundamental measured in the test report are well below the limit.   |
| <b>Resolution</b> | The applicant confirmed that the measured field strengths of the fundamental are representative of mass production.  |
| <b>Item</b>       | The test report did not have both peak and average data above 1 GHz  |
| <b>Resolution</b> | The revised test report included additional data including both peak and average readings above 1 GHz.   |
| <b>Item</b>       | The test report provided no data or test equipment for testing above 6 GHz   |
| <b>Resolution</b> | The revised test report included additional data from 6 – 10 GHz and a complete equipment list to support those measurements                               |
| <b>Item</b>       | Unclear whether the radio could operate while the host cell phone is charging. If so, then AC powerline conducted emissions are required.                  |
| <b>Resolution</b> | The applicant stated that the radio could not operate while the host cell phone is charging. Therefore, AC powerline conducted emissions are not required. |
| <b>Item</b>       | No evidence was provided that the receiver portion of the radio had been FCC verified.   |
| <b>Resolution</b> | The revised test report included additional data that demonstrated compliance with FCC verification requirements.  |

**Opinion**

| Specification Requirements | Description |
|----------------------------|-------------|
| 2.1091, 2.1093             | RF Exposure |

**Opinion:** The Equipment meets the intent specified by the requirements listed above. It is categorically excluded from routine environmental evaluation.

| Specification Requirements | Description                            |
|----------------------------|--|
| 15.249                     | Spurious Emissions, Radiated Emissions |

**Opinion:** The Equipment meets the intent specified by the requirements listed above.

**Discussion:** The Applicant has submitted test results in the form of a test report.

**Reference:** Technical Report

| Specification Requirements | Description                       |
|----------------------------|-----------------------------------|
| 15.249                     | Field Strength of the Fundamental |

**Opinion:** The Equipment meets the intent specified by the requirements listed above.

**Discussion:** The Applicant has submitted test results in the form of a test report.

**Reference:** Technical Report

| Specification Requirements | Description                      |
|----------------------------|----------------------------------|
| 15.207                     | AC Powerline Conducted Emissions |

**Opinion:** The Equipment meets the intent specified by the requirements listed above.

**Discussion:** The Applicant has stated that the radio does not operate while the host cell phone is charging. It only operates when battery powered. There is no provision for connection to the AC mains. Therefore, no AC power line conducted emissions measurements are required.