LIST OF EXHIBITS

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* = Exhibit filed confidentially with the FCC

EXHIBIT 1

GENERAL INFORMATION FOR CERTIFICATION

The information provided in this exhibit is submitted in response to the requirements of § 2.1033 Application for a certification grant of equipment authorization.

General Description of Equipment (Informative)

NAME:	Intel [®] PRO/W	vireless GPRS 3110 PC Card
MODEL:	IG3110	
FCC ID:	PUKIG3110	
MANUFACT	URER:	Intel Corporation
		Intel Communications Group,
		Mobile Communications Division

The PUKIG3110 is an RF transceiver in a PC Card form factor which operates under the authority of Part 24, Subpart E--Broadband PCS--of the FCC Rules and Regulations. Furthermore, the PUKIG3110 complies with all applicable national and international GSM standards including, for example, J-STD-007, PCS Air Interface Specification (PCS-1900), and the current family of ETSI (European Telecommunications Standards Institute) standards for GSM 900/1800/1900 MHz Phase 2+ GSM/GPRS terminals.

As a wireless data terminal, the PUKIG3110 provides notebook computer users access to the Global System for Mobility, or GSM, network, and ultimately the Public Switched Telephone Network (PSTN) and the internet. Both circuit-switched (traditional GSM) and packet-switched (GSM Packet Radio Services, or GPRS) connectivity is afforded by the PUKIG3110, enabling a variety of mobile voice (using a headset) and wireless data applications including internet access for email and file transfers, GSM short-message service (SMS), and web browsing.

The PUKIG3110 is an extended Type II PC Card and is supplied with both a removable RF antenna (utilizing a unique RF connector) and an audio headset. Operating power (3.3 VDC) is provided by the host notebook PC (IBM-compatible); communication with the host is via dual-serial ports for AT commands and user data. Host drivers and bundled applications (provide a variety of phone and data functionality) are provided for various Windows operating systems, including XP and 2000.

Section 2.1033(a) Application for certification

A completed FCC Form 731 "Application for Equipment Authorization" accompanies this document, both of which have been filed electronically.

Section 2.1033(c)(1)	Name of Applicant
Applicant:	Intel Corporation 1357 Garden of the Gods Road Colorado Springs, CO 80907
Manufacturer:	Jabil Circuit Sdn Bhd Plot 50 Bayan Lepas Industrial Zone Phase 4, 11900 Bayan Lepas Penang, MALAYSIA

Jabil is a contract manufacturer and will be the final manufacturer of the equipment described in this application.

Section 2.1033(c)(2)	Equipment Identification and FCC Identifier
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Product Name:	PRO/Wireless GPRS 3110 PC Card
Model Number:	IG3110
FCC ID:	PUKIG3110

Section 2.1033(c)(3) User Documentation

Refer to Exhibit 2. Included is a statement affirming that the PUKIG3110 complies with current FCC requirements addressing human exposure to radiofrequency radiation, pursuant to the requirements of § 24.52.

Section 2.1033(c)(4) Type of Emission (Emissions Designator)

Emissions Designator: **250KGXW**

The maximum measured occupied bandwidth of the signal transmitted by PUKIG3110 is 250 kHz and thus the sequence 250K was chosen as the first four characters of the emissions designator.

The emissions classification of GXW was determined using the guidance presented in $\S 2.201$. The PUKIG3110 transmits a Gaussian Minimal Shift Keying (GMSK) modulated carrier, a type of phase modulation. Per $\S 2.201(c)$, the first symbol of the emission classification, type of modulation of the main carrier, is therefore G.

The second symbol describes the nature of the signal modulating the main carrier. In the PUKIG3110, a digital signal representing sampled, quantized voice or other audio information, or subscriber and control data, is used to modulate the main carrier. Time Division Multiple Access (TDMA) techniques are used to increase capacity. Per § 2.201(d), the symbol X is appropriate.

Information transmitted by the PUKIG3110 is a combination of subscriber and control data. The third symbol of the emissions classification, which describes the type of information to be transmitted, is thus W as listed in § 2.201(e).

Section 2.1033(c)(5) Frequency Range

The PUKIG3110 operates within the combined 1850–1910 MHz and 1930–1990 MHz frequency bands under the authority of Part 24, Subpart E—Broadband PCS. By established convention, broadband PCS terminals transmit in the lower and receive in the upper of the broadband PCS frequency block pairs defined in § 24.229. These blocks and the corresponding PUKIG3110 transmit and receive frequency ranges are listed in Table E1.1.

PCS Block	Transmit	Receive
	Frequency Range	Frequency Range
А	1850 – 1865 MHz	1930 – 1945 MHz
В	1870 – 1885 MHz	1950 – 1965 MHz
С	1895 – 1910 MHz	1975 – 1990 MHz
D	1865 – 1870 MHz	1945 – 1950 MHz
Е	1885 – 1890 MHz	1965 – 1970 MHz
F	1890 – 1895 MHz	1970 – 1975 MHz

Table E1.1. Broadband PCS blocks / PUKIG3110 frequencies of operation.

Although the PUKIG3110 can operate in the GSM 900, DCS 1800 and PCS 1900 MHz frequency bands, it will only function when a valid GSM network is physically present, and then only under the control of the network. Because there are no valid GSM 900 / DCS 1800 MHz networks which operate in the United States / Canada, the PUKIG3110 will not transmit in these bands in the United States / Canada.

Section 2.1033(c)(6) Range of Operating Powers

The range of PUKIG3110 nominal transmitter output power levels, per GSM standards as measured at the RF output connector, are as follows:

Measured Maximum Output Power:	30.0 dBm (1.00 W)

Measured Minimum Output Power:	0.0 dBm (1.00 mW)
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Maximum RF output power is set during transmitter tune-up at the factory (refer to Exhibit 4 for a description of the tune-up procedure) and cannot be changed during equipment installation or operation.

The RF output power level of each transmitted burst can be adjusted over a 30 dB range (16 steps of 2 dB each). The specific RF output power level chosen by the PUKIG3110 for each transmitted burst is determined by and under the control of the PCS 1900

network, specifically the Base Transceiver Station (BTS). Terminal RF power control is employed by the GSM network to minimize the transmit power required while maintaining the quality of the radio link.

Section 2.1033(c)(7) **Maximum Power Rating**

Per §24.232(a) of the FCC Rules and Regulations, in no case may the peak output power of a broadband PCS base station or fixed terminal exceed 100 W (50 dBm), nor may peak e.i.r.p. exceed 1640 W. Mobile/portable stations are limited to 2 W e.i.r.p. peak power in accordance with the requirements of § 24.232(b). In all applications, the output power of the PUKIG3110 is under control of the GSM network and is kept at the minimum level necessary to ensure successful communications. Furthermore, the PUKIG3110 complies with the RF hazard requirements applicable to licensed PCS equipment for both fixed and mobile uses as specified in § 24.52 and a statement affirming compliance with these requirements is contained in the attached User's Manual (refer to Exhibit 2).

Section 2.1033(c)(8) DC Voltages Applied to and Currents into Final Amplifying Devices

Refer to Exhibit 3.

Section 2.1033(c)(9)	Tune-up Procedure
Refer to Exhibit 4.	Note that this exhibit has been filed confidentially with the FCC.
Section 2.1033(c)(10)	Block and Schematic Diagram
Refer to Exhibit 5.	Note that this exhibit has been filed confidentially with the FCC.
Section 2.1033(c)(10)	Means for Determining and Stabilizing Frequency, Suppression of Spurious Radiation, Limiting Modulation, and Power
Refer to Exhibit 6.	
Section 2.1033(c)(11)	FCC Labeling Information
Refer to Exhibit 7.	

Section 2.1033(c)(13) **Detailed Description of Modulation System**

Refer to Exhibit 8.