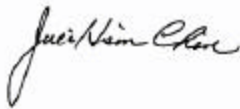


**Bluetooth® Wireless Technology
Qualified Product Listing
BQB: Juei-Hsin (Jean) Chin**

Assessment Date: October 14, 2004
Listing Date: October 14, 2004
Applicant: National Semiconductor Corporation
5825 Oberlin Drive, Suite 400, San Diego CA 92121
<http://www.national.com>
Manufacturer: Same as above
Contact Info: Mr. Xinyu Zhang
+1.858.431.1913
Peter.Zhang@nsc.com
Product Name: LMX9820A Bluetooth Wireless Technology Serial Port Module
Product ID: LMX9820A
Product Category: Components
Product Type: Bluetooth -HW-Integrated
Hardware Version: 3.2
Firmware Version: 6.21
Specification Version: 1.1
Reference: Test Case Reference List (TCRL_1-1_041001)
Pre-Tested Components: B00957, RTX Telecom A/S RTX Telecom A/S Embedded Full Bluetooth Protocol Stack
B00627, National Semiconductor, LMX5100 Bluetooth Baseband
B01387, National Semiconductor, LMX5252

Protocol/Profiles Supported by the Implementation Under Test (IUT)		
	Protocol/Profile – Conformance	Profile – Interoperability / Roles
QPL0130	Radio (RF) Baseband (BB) Link Manager (LM)	N/A

I certify that the LMX9820A Bluetooth Wireless Technology Serial Port Module has a *Bluetooth* Brand License based on the requirements as described in the *Bluetooth* Program Reference Document 1.0 Sec. 6.2.1.Pre-Tested *Bluetooth* Components. The identified Covered Functionality may be considered qualified when used in an End Product, and/or BIC, unless stated differently in the Appendix A.



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Job Control # 0501003

Appendix A:

Compliant Portion Declaration:

N/A

Covered Functionality:

1. Part A – RF

As defined in the Test Specification RF Specification 1.1, document number 20.B.353/0.91, all mandatory and the following optional features are supported:

- Power class 2
- Support of 3-slot and 5-slot packages
- 79 channels
- Normal temperature: +22°C
- Temperature range: -40°C to +85°C
- Nominal Voltage: +3.3v
- Voltage range: +2.85v to +3.6v
- Antenna gain: 0 dBi
- Antenna type: external
- Oscillator: external
- Component type: module

2. Part B – Base Band (BB)

As defined in the Test Specification Part B: Test Suite Structure (TSS) and Test Purposes (TP) For Baseband Specification 1.1, document number 20.B.354/0.92, all mandatory and optional features are supported except B.1/4(and associated), B.3/2, B.3/4, B.8/2-4, B.9/1, B12/2, B.13/1, and B13/2. (B.3/1=1, B3/3=1, B11.2=3.)

3. Part C – Link Manager Protocol (LMP)

As defined in the Test Specification Part C: Test Suite Structure (TSS) and Test Purposes (TP) For Link Manager Specification 1.1, document number 20.B.355/0.92, all mandatory and optional features are supported except C.2/9-11, C.20/1, C.23/1-4, C.25/1, and C.25/3.

4. Part D – Logical Link Control and Adaptation Protocol (L2CAP)

As defined in the Test Specification Part D: Test Suite Structure (TSS) and Test Purposes (TP) For Logical Link Control and Adaptation Protocol (L2CAP) Specification 1.1, document number 20.B.356/0.82, all mandatory and optional features are supported.

5. Part E – Service Discovery Protocol (SDP)

As defined in the Test Specification Part E: Test Suite Structure (TSS) and Test Purposes (TP) For Service Discovery Protocol (SDP) Specification 1.1, document number 20.B.357/0.93, all mandatory and optional features are supported.

6. Part F1 – RFComm with TS0710

As defined in the Test Specification Part F:1: Test Suite Structure (TSS) and Test Purposes (TP) For RFComm Specification 1.1, document number 20.B.158/0.92, and Addendum to Part F1_0.92, all mandatory and optional features are supported except F: 1.1/21..

7. Part K1 – Generic Access Protocol (GAP)

As defined in the Test Specification Part K:1: Test Suite Structure (TSS) and Test Purposes (TP) For Generic Access Profile Specification 1.1, document number 21.B.358/0.91, and Addendum to Part K1_0.91, all mandatory and optional features are included except K:1.1/2, and K:1.1/6.

8. Part K:5 - Serial Port Profile (SPP)

As defined in the Test Specification Part K:5: Test Suite Structure (TSS) and Test Purposes(TP) For Serial Port Profile Specification 1.1, document number 21.B.362/0.93, all mandatory and optional features are supported except K:5.2/6, K:5.7/16-20, K:5.8/6, K:5.9/19, and K:5.13/16-20.

Revision History:

Revision	Date	Description
QPL0130-HYPER	February 1, 2005	First release after BQB transfer