



Engineering and Testing for EMC and Safety Compliance

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## FCC CERTIFICATION OF A CLASS B DIGITAL DEVICE

**NMB Technologies, Inc.**  
9730 Independence Ave.  
Chatsworth, CA 91311  
818-341-3355

**MODEL: RT3602**

**FCC ID: AQ6-3602**

*September 25, 2000*

| Standards Referenced for this Report |                                                                                |
|--------------------------------------|--------------------------------------------------------------------------------|
| Part 2: 1999                         | Frequency Allocations and Radio Treaty Matters; General Rules and Regulations  |
| Part 15: 1999                        | §15.109: Radiated Emissions Limits                                             |
| ANSI C63.4-1992                      | Standard Format Measurement/Technical Report Personal Computer and Peripherals |

| FCC Rules Parts | Frequency Range | Output Power<br>(W) | Freq. Tolerance | Emission Designator |
|-----------------|-----------------|---------------------|-----------------|---------------------|
| 15(b)           |                 |                     |                 |                     |

**REPORT PREPARED BY:**

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**Rhein Tech Laboratories, Inc.**

*Document Number: 2000383*

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## 1 GENERAL INFORMATION

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The following FCC Certification for a Class B Digital Device is prepared for **NMB Technologies, Inc.** in accordance with Part 2, and Part 15, Subparts A and B of the Federal Communications Commission's rules and regulations. The equipment under test (EUT) was the **RT3602; FCC ID: AQ6-3602**. The test results reported in this document relate only to the item that was tested.

All measurements contained in this report were conducted in accordance with ANSI C63.4 Methods of Measurement of Radio Noise Emissions, 1992. The instrumentation utilized for the measurements conforms with the ANSI C63.4 standard for EMI and Field Strength Instrumentation. Some accessories are used to increase sensitivity and prevent overloading of the measuring instrument. These are explained in the appendix of this report. Calibration checks are performed regularly on the instruments, and all accessories including the high pass filter, preamplifier and cables.

All radiated and conducted emissions measurement were performed manually at Rhein Tech Laboratories, Inc. The radiated emissions measurements required by the rules were performed on the three meter, open field test range maintained by Rhein Tech Laboratories, Inc., 360 Herndon Parkway, Suite 1400, Herndon, Virginia 20170. Complete description and site attenuation measurement data has been placed on file with the Federal Communications Commission. The power line conducted emission measurements were performed in a shielded enclosure also located at the Herndon, Virginia facility. Rhein Tech, Labs, Inc. is accepted by the FCC as a facility available to do measurement work for others on a contract basis.

### 1.1 RELATED SUBMITTALS & GRANTS

This is an original application for certification.

### 1.2 MODIFICATIONS

Modifications were not made while testing.

### 1.3 TEST METHODOLOGY

Both conducted and radiated testing were performed according to the procedures in ANSI C63.4 1992. Radiated testing was performed at an antenna to EUT distance of three meters.

### 1.4 TEST FACILITY

The open area test site and conducted measurement facility used to collect the radiated data is located on the parking lot of Rhein Tech Laboratories, Inc. 360 Herndon Parkway, Suite 1400, Herndon, Virginia 20170. This site has been fully described in a report dated June 24, 1996, submitted to and approved by the Federal Communications Commission to perform AC line conducted and radiated emissions testing (ANSI C63.4 1992).



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## 2 TESTED SYSTEM DETAILS

### 2.1 Components Used With EUT

Listed below are the identifiers and descriptions of all equipment, cables, and internal devices used with the EUT for this test.

#### 2.1.1 External Components

| PART         | MANUFACTURER            | MODEL               | SERIAL NUMBER | FCC ID    | CABLE DESCRIPTION                                      | RTL BAR CODE |
|--------------|-------------------------|---------------------|---------------|-----------|--------------------------------------------------------|--------------|
| CAMERA       | INTEL CORPORATION       | CS430               | 30021543      | DoC       | SHIELDED I/O                                           | 011151       |
| TELEPHONE    | PANASONIC               | KX-T7020            | 2GIA003103    | N/A       | UNSHIELDED I/O                                         | 900697       |
| AUDIO DEVICE | RADIO SHACK             | SCP-59              | N/A           | N/A       | SHIELDED I/O                                           | 900691       |
| MICROPHONE   | GATEWAY 2000, INC.      | MODEM SPEAKERPHONE  | N/A           | N/A       | SHIELDED I/O                                           | 010153       |
| SPEAKER      | CAMBRIDGE SOUND SYSTEMS | GCS 200             | SBS51-0001    | N/A       | UNSHIELDED I/O<br>UNSHIELDED POWER                     | 011537       |
| SPEAKER      | CAMBRIDGE SOUND SYSTEMS | GCS 200             | SBS51-0001    | N/A       | UNSHIELDED I/O                                         | 011538       |
| JOYSTICK     | MICROSOFT               | X03-57540           | 7596071-00000 | SAMPLE    | SHIELDED I/O                                           | 010315       |
| MODEM        | US ROBOTICS             | 0413                | 8390364645141 | DoC       | SHIELDED I/O<br>UNSHIELDED POWER                       | 900421       |
| MOUSE        | MICROSOFT CORPORATION   | INTELLIMOUSE USB    | PS/2 MOUSE    | SAMPLE    | SHIELDED WITH FERRITE<br>2 COMP. I/O                   | 012302       |
| PRINTER      | HEWLETT PACKARD         | C6413B DESKJET 832C | MY97U1201K    | DoC       | SHIELDED I/O<br>UNSHIELDED POWER                       | 011170       |
| MONITOR      | LG ELECTRONICS          | EV500A (15")        | 15017E059522U | BEJCB575B | SHIELDED, FERRITE BOTH<br>ENDS I/O<br>UNSHIELDED POWER | 011565       |
| SYSTEM       | GATEWAY COMPANIES, INC. | MICRO ATX           | N/A           | DoC       |                                                        | 011680       |



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### 2.1.2 Internal Components

| PART         | MANUFACTURER       | MODEL                  | SERIAL NUMBER | FCC ID       | CABLE DESCRIPTION              | RTL BAR CODE |
|--------------|--------------------|------------------------|---------------|--------------|--------------------------------|--------------|
| MEMORY       | MICRON             | MT4LSDT464AG-10CB2     | 32MB DIMM     | N/A          | N/A                            | 011687       |
| MODEM        | GVC                | 2B5                    | G9C6HMX       | DK4F1156IVR9 | UNSHIELDED I/O                 | 011685       |
| CPU          | INTEL CORPORATION  | CELERON 700 MHz (S370) | T010A280-0321 | N/A          | N/A                            | 012012       |
| MOTHERBOARD  | INTEL CORPORATION  | BRYANT                 | IUW201801239  | N/A          | INTERNAL I/O<br>INTERNAL POWER | 012027       |
| CD-ROM DRIVE | MITSUMI            | CRMC-FX4821T           | FFF006735     | OC           | INTERNAL I/O<br>INTERNAL POWER | 011682       |
| POWER SUPPLY | ASTEC CUSTOM POWER | ATX93-3405             | 2983227305    | N/A          | UNSHIELDED POWER               | 012112       |
| HARD DRIVE   | IBM                | DPTA-371360            | JHTOE175      | N/A          | INTERNAL I/O<br>INTERNAL POWER | 011683       |
| FLOPPY DRIVE | MITSUMI            | D353M3                 | 9K22GG1117    | N/A          | INTERNAL I/O<br>INTERNAL POWER | 011684       |

### 2.2 EUT

| PART           | MANUFACTURER            | MODEL  | SERIAL NUMBER | FCC ID | CABLE DESCRIPTION | RTL BAR CODE |
|----------------|-------------------------|--------|---------------|--------|-------------------|--------------|
| KEYBOARD (EUT) | GATEWAY COMPANIES, INC. | RT3602 | NO FERRITE    | SAMPLE | SHIELDED I/O      | 012511       |



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## 2.3 CONFIGURATION OF TESTED SYSTEM





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## 2.4 EUT EXERCISE SOFTWARE

The EUT exercise program used during radiated and conducted testing has been designed to exercise the various system components in a manner similar to a typical use. The software, contained on the hard disk drive, sequentially exercises each system component by doing the following: 1) an H prints on the monitor, 2) an H prints on the printer 3) an H is sent to serial ports, 4) a file is read from the floppy diskette, 5) a file is read from the hard drive and any other hard drive present, and 6) a file is read from the CD-ROM drive. Systems that utilize network cards are connected to a server and are configured to transmit and receive packets of data. The complete cycle takes less than one second and is repeated continually. The keyboard and mouse were continuously scanned for data input activity during testing. The EUT contains two USB ports. Two USB mice were used to investigate both USB ports on the EUT. This represents the worstcase configuration.

## 2.5 SPECIAL ACCESSORIES

The end user is advised that to use the same type cables as mentioned in this test report.



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## 3 CONDUCTED

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### 3.1 CONDUCTED TEST METHODOLOGY

The power line conducted emission measurements were performed in a Series 81 type shielded enclosure manufactured by Rayproof. The EUT was assembled on a wooden table 80 centimeters high. Power was fed to the EUT through a 50 ohm / 50 microhenry Line Impedance Stabilization Network (EUT LISN). The EUT LISN was fed power through an A.C. filter box on the outside of the shielded enclosure. The filter box and EUT LISN housing are bonded to the ground plane of the shielded enclosure. A second LISN, the peripheral LISN, provides isolation for the EUT test peripherals. This peripheral LISN was also fed A.C. power. A metal power outlet box, which is bonded to the ground plane and electrically connected to the peripheral LISN, powers the EUT host peripherals.

The spectrum analyzer was connected to the A.C. line through an isolation transformer. The 50-ohm output of the EUT LISN was connected to the spectrum analyzer input through a Solar 400 kHz high-pass filter. The filter is used to prevent overload of the spectrum analyzer from noise below 400 kHz. Conducted emission levels were measured on each current-carrying line with the spectrum analyzer operating in the CISPR quasi-peak mode (or peak mode if applicable). The analyzer's 6 dB bandwidth was set to 9 kHz. No video filter less than 10 times the resolution bandwidth was used. Average measurements are performed in linear mode using a 10 kHz resolution bandwidth, a 1 Hz video bandwidth, and by increasing the sweep time in order to obtain a calibrated measurement. The emission spectrum was scanned from (150/450) kHz to 30 MHz. The highest emission amplitudes relative to the appropriate limit were measured and have been recorded in this report.



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### 3.2 CONDUCTED EMISSION DATA

Pk = Peak; QP = Quasi-Peak; Av = Average

#### 3.2.1 Neutral Side (L1)

| Temperature: 74°F Humidity: 40% |               |                         |                             |                       |                         |                          |                         |                          |           |          |
|---------------------------------|---------------|-------------------------|-----------------------------|-----------------------|-------------------------|--------------------------|-------------------------|--------------------------|-----------|----------|
| Emission Frequency (MHz)        | Test Detector | Analyzer Reading (dBuV) | Site Correction Factor (dB) | Emission Level (dBuV) | CISPR B QP Limit (dBuV) | CISPR B QP Margin (dBuV) | CISPR B AV Limit (dBuV) | CISPR B AV Margin (dBuV) | Pass/Fail | Comments |
| 0.203                           | Pk            | 46.0                    | 0.8                         | 46.8                  | 63.5                    | -16.7                    | 53.5                    | -6.7                     | Pass      |          |
| 0.306                           | Pk            | 41.8                    | 0.7                         | 42.5                  | 60.1                    | -17.6                    | 50.1                    | -7.6                     | Pass      |          |
| 0.408                           | Pk            | 36.1                    | 0.6                         | 36.7                  | 57.7                    | -21.0                    | 47.7                    | -11.0                    | Pass      |          |
| 0.815                           | Pk            | 35.9                    | 0.7                         | 36.6                  | 56.0                    | -19.4                    | 46.0                    | -9.4                     | Pass      |          |
| 0.916                           | Pk            | 35.4                    | 0.7                         | 36.1                  | 56.0                    | -19.9                    | 46.0                    | -9.9                     | Pass      |          |
| 1.208                           | Pk            | 33.3                    | 0.9                         | 34.2                  | 56.0                    | -21.8                    | 46.0                    | -11.8                    | Pass      |          |
| 9.020                           | Pk            | 40.2                    | 2.4                         | 42.6                  | 60.0                    | -17.4                    | 50.0                    | -7.4                     | Pass      |          |

#### 3.2.2 Hot Side (L2)

| Temperature: 74°F Humidity: 40% |               |                         |                             |                       |                         |                          |                         |                          |           |          |
|---------------------------------|---------------|-------------------------|-----------------------------|-----------------------|-------------------------|--------------------------|-------------------------|--------------------------|-----------|----------|
| Emission Frequency (MHz)        | Test Detector | Analyzer Reading (dBuV) | Site Correction Factor (dB) | Emission Level (dBuV) | CISPR B QP Limit (dBuV) | CISPR B QP Margin (dBuV) | CISPR B AV Limit (dBuV) | CISPR B AV Margin (dBuV) | Pass/Fail | Comments |
| 0.202                           | Pk            | 48.7                    | 0.6                         | 49.3                  | 63.5                    | -14.2                    | 53.5                    | -4.2                     | Pass      |          |
| 0.306                           | Pk            | 43.1                    | 0.7                         | 43.8                  | 60.1                    | -16.3                    | 50.1                    | -6.3                     | Pass      |          |
| 0.408                           | Pk            | 35.1                    | 0.6                         | 35.7                  | 57.7                    | -22.0                    | 47.7                    | -12.0                    | Pass      |          |
| 0.711                           | Pk            | 39.5                    | 0.7                         | 40.2                  | 56.0                    | -15.8                    | 46.0                    | -5.8                     | Pass      |          |
| 0.813                           | Pk            | 40.4                    | 0.8                         | 41.2                  | 56.0                    | -14.8                    | 46.0                    | -4.8                     | Pass      |          |
| 0.915                           | Pk            | 38.9                    | 0.8                         | 39.7                  | 56.0                    | -16.3                    | 46.0                    | -6.3                     | Pass      |          |
| 1.004                           | Pk            | 33.0                    | 0.9                         | 33.9                  | 56.0                    | -22.1                    | 46.0                    | -12.1                    | Pass      |          |
| 8.830                           | Pk            | 32.0                    | 2.5                         | 34.5                  | 60.0                    | -25.5                    | 50.0                    | -15.5                    | Pass      |          |
| 10.560                          | Pk            | 31.0                    | 2.7                         | 33.7                  | 60.0                    | -26.3                    | 50.0                    | -16.3                    | Pass      |          |

#### Test Personnel:

Signature: 

Date: September 13, 2000

Typed/Printed Name: K. Franck Schuppis



## 4 RADIATED

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### 4.1 RADIATED TEST METHODOLOGY

Before final measurements of radiated emissions were made on the open-field three/ten meter range; the EUT was scanned indoors at one and three meter distances. This was done in order to determine its emissions spectrum signature. The physical arrangement of the test system and associated cabling was varied in order to determine the effect on the EUT's emissions in amplitude, direction and frequency. This process was repeated during final radiated emissions measurements on the open-field range, at each frequency, in order to insure that maximum emission amplitudes were attained.

Final radiated emissions measurements were made on the three-meter, open-field test site. The EUT was placed on a nonconductive turntable 0.8 meters above the ground plane. The spectrum was examined from 30 MHz to 1000 MHz.

At each frequency, the EUT was rotated 360 degrees, and the antenna was raised and lowered from one to four meters in order to determine the maximum emission levels. Measurements were taken using both horizontal and vertical antenna polarizations. The spectrum analyzer's 6 dB bandwidth was set to 120 kHz, and the analyzer was operated in the CISPR quasi-peak detection mode. No video filter less than 10 times the resolution bandwidth was used. When any clock exceeds 108 MHz, the EUT was tested between 1 to 2 Gigahertz in peak mode with the resolution bandwidth set at 1 MHz as stated in ANSI C63.4. The highest emission amplitudes relative to the appropriate limit were measured and recorded in this report.

*Note: Rhein Tech Laboratories, Inc. has implemented procedures to minimize errors that occur from test instruments, calibration, procedures, and test setups. Test instrument and calibration errors are documented from the manufacturer or calibration lab. Other errors have been defined and calculated within the Rhein Tech quality manual, section 6.1. Rhein Tech implements the following procedures to minimize errors that may occur: yearly as well as daily calibration methods, technician training, and emphasis to employees on avoiding error.*



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## 4.2 RADIATED EMISSION DATA

The following data lists the significant emission frequencies. All readings are Quasi-Peak unless otherwise stated.

| Temperature: 90°F Humidity: 11% |               |                        |                         |                    |                           |                               |                         |                |             |           |          |
|---------------------------------|---------------|------------------------|-------------------------|--------------------|---------------------------|-------------------------------|-------------------------|----------------|-------------|-----------|----------|
| Emission Frequency (MHz)        | Test Detector | Antenna Polarity (H/V) | Turntable Azimuth (deg) | Antenna Height (m) | Analyzer Reading (dBuV/m) | Site Correction Factor (dB/m) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Pass/Fail | Comments |
| 50.550                          | Qp            | H                      | 90                      | 1.0                | 34.8                      | -17.0                         | 17.8                    | 30.0           | -12.2       | Pass      |          |
| 58.970                          | Qp            | V                      | 90                      | 1.0                | 42.1                      | -18.3                         | 23.8                    | 30.0           | -6.2        | Pass      |          |
| 63.500                          | Qp            | V                      | 90                      | 1.0                | 37.0                      | -18.4                         | 18.6                    | 30.0           | -11.4       | Pass      |          |
| 166.235                         | Qp            | H                      | 145                     | 1.0                | 34.8                      | -12.4                         | 22.4                    | 30.0           | -7.6        | Pass      |          |
| 243.015                         | Qp            | V                      | 180                     | 1.0                | 39.3                      | -9.2                          | 30.1                    | 37.0           | -6.9        | Pass      |          |
| 299.215                         | Qp            | H                      | 180                     | 1.0                | 34.3                      | -7.1                          | 27.2                    | 37.0           | -9.8        | Pass      |          |
| 332.460                         | Qp            | H                      | 180                     | 1.0                | 34.4                      | -5.9                          | 28.5                    | 37.0           | -8.5        | Pass      |          |
| 338.000                         | Qp            | V                      | 180                     | 1.0                | 34.0                      | -5.6                          | 28.4                    | 37.0           | -8.6        | Pass      |          |

### Test Personnel:

Signature: 

Date: September 13, 2000

Typed/Printed Name: K. Franck Schuppious



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## 5 EMISSIONS EQUIPMENT LIST

| RTL equipment for emission testing |                   |               |                                        |               |                      |
|------------------------------------|-------------------|---------------|----------------------------------------|---------------|----------------------|
| RTL Asset Number                   | Manufacturer      | Model         | Part Type                              | Serial Number | Calibration due date |
| 900969                             | Hewlett Packard   | 85650A        | Quasi-Peak Adapter (30 Hz – 40 GHz)    | 2412A00414    | 03/23/01             |
| 900901                             | Hewlett Packard   | 85650A        | Quasi-Peak Adapter (30 Hz – 40 GHz)    | 3145A01599    | 11/09/00             |
| 900339                             | Hewlett Packard   | 85650A        | Quasi-Peak Adapter (30 Hz – 40 GHz)    | 2521A00743    | 03/27/01             |
| 900042                             | Hewlett Packard   | 85650A        | Quasi-Peak Adapter (30 Hz – 40 GHz)    | 2521A01032    | 11/09/00             |
| 900968                             | Hewlett Packard   | 8567A         | Spectrum Analyzer (10 kHz - 1.5 GHz)   | 2602A00160    | 03/23/01             |
| 900931                             | Hewlett Packard   | 8566B         | Spectrum Analyzer (100 Hz - 22 GHz)    | 3138A07771    | 03/27/01             |
| 901053                             | Schaffner         | CBL6112B      | Bi-Log Chase Antenna (200 MHz – 2 GHz) | 2648          | 07/24/01             |
| 900791                             | Schaffner - Chase | CBL6112       | Antenna (25 MHz - 2 GHz)               | 2099          | 02/22/01             |
| 900321                             | EMCO              | 3161-03       | Horn Antennas (4-8,2GHz)               | 9508-1020     | N/A                  |
| 900323                             | EMCO              | 3160-7        | Horn Antennas (8,2-12,4 GHz)           | 9605-1054     | N/A                  |
| 900325                             | EMCO              | 3160-9        | Horn Antennas (18 - 26.5 GHz)          | 9605-1051     | N/A                  |
| 900338                             | EMCO              | 3160-10       | Horn Antennas (26.5 - 40 GHz)          | 9606-1033     | N/A                  |
| 900970                             | Hewlett Packard   | 85662A        | Spectrum Analyzer Display              | 254211239     | 03/23/01             |
| 900930                             | Hewlett Packard   | 85662A        | Spectrum Analyzer Display              | 3144A20839    | 03/28/01             |
| 900902                             | Hewlett Packard   | 85662A        | Spectrum Analyzer Display              | 2848A17585    | 11/09/00             |
| 900896                             | Hewlett Packard   | 85662A        | Spectrum Analyzer Display              | 2816A16471    | 11/09/00             |
| 900726                             | Solar             | 7225-1        | LISN                                   | -             | 03/29/01             |
| 900727                             | Solar             | 7225-1        | LISN                                   | -             | 03/29/01             |
| 900932                             | Hewlett Packard   | 8449B OPT H02 | Preamplifier (1-26.5 GHz)              | 3008A00505    | 11/10/00             |
| 900077                             | Solar             | 7225-1        | LISN                                   |               | 03/29/01             |
| 900078                             | Solar             | 7225-1        | LISN                                   |               | 03/29/01             |
| 9000729                            | Solar             | 8130          | Filter                                 | 947306        | N/A                  |
| 9000729                            | Solar             | 8130          | Filter                                 | 947305        | N/A                  |



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## 6 CONFORMANCE STATEMENT

| Standards Referenced for this Report |                                                                                |
|--------------------------------------|--------------------------------------------------------------------------------|
| Part 2: 1999                         | Frequency Allocations and Radio Treaty Matters; General Rules and Regulations  |
| Part 15: 1999                        | §15.109: Radiated Emissions Limits                                             |
| ANSI C63.4-1992                      | Standard Format Measurement/Technical Report Personal Computer and Peripherals |

I, the undersigned, hereby declare that the equipment tested and referenced in this report conforms to the identified standard(s) as described above. No modifications were made to the equipment during testing in order to achieve compliance with these standards.

Furthermore, there was no deviation from, additions to or exclusions from the FCC Part 2, FCC Part 15 and ANSI C63.4 Certification methodology.

Signature: \_\_\_\_\_

Date: September 25, 2000

Typed/Printed Name: Desmond A. Fraser

Position: President  
(NVLAP Signatory)

 Accredited by the National Voluntary Accreditation Program for the specific scope of accreditation under Lab Code 200061-0.

**Note:** This report may not be used by the client to claim product endorsement by NVLAP or any agency of the U.S. Government.