

FCC DoC TEST REPORT

According to

FCC Part 15 Subpart B

Test Item : Redundant Power Supply

Model No. : TC-300R8, TC-250R8, TC-250R9, TC-300R8A, TC-400R8A,
TC-400R8, TC-300R6, TC-400R6, TC-500R8A

Responsible Party : I-STAR COMPUTER CO., LTD

Address 2F, NO.33 LANE42, CHUNG SHIN NORTH ST., SAN
CHUNG CT, TAIPEI, TAIWAN, R. O. C.

Test Engineer :

Test Date :

Issued Date : JULY 13. 2002

NVLAP Signature : _____
Peter Kao / Director

The test report shall not be reproduced except in full, without the written approval of the laboratory.

The report must not be used by the client to claim product endorsement by NVLAP or any agency of the United States government.

This report is only for item test which described in page 4 .

The testing result in this report are traceable to national and international standard .

PEP TESTING LABORATORY

12-3Fl, No. 27-1, Lane 169, Kang-Ning St., Hsi-Chin.
Taipei Hsien, Taiwan, R. O. C.
TEL : 8862-26922097 FAX : 8862-26956236

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1. Scope

Measurement and determination of electromagnetic emissions (EME) of radio frequency devices including intentional and/or unintentional radiators for compliance with the technical rules and regulations of the Federal Communications Commission under ET Docket 95-19 Declaration of Conformity(DoC).

Responsible Party*: I-STAR COMPUTER CO., LTD

Address: 2F, NO.33 LANE42, CHUNG SHIN NORTH ST., SAN CHUNG CT, TAIPEI, TAIWAN, R. O. C.

Contact Person: David Yeh / Manager

Phone No.: 886-2-2999-5951

Fax No. : 886-2-2999-5933

- ✧ Regulation: FCC Part 15 & Part 2; Docket 95-19
- ✧ Limitation: CISPR 22 CLASS B
- ✧ Test Procedure: ANSI C63.4(1992)
- ✧ Test Item: Redundant Power Supply
- ✧ Model No.: TC-300R8
- ✧ Serial No.: N/A
- ✧ Place of Test: PEP Testing Laboratory
12-3Fl, No. 27-1, Lane 169, Kang-Ning St., Hsi-Chin.
Taipei Hsien, Taiwan, R. O. C.
TEL : 8862-26922097 FAX : 8862-26956236

Measurement Uncertainty :

The uncertainty of the testing result is given as below . The method of uncertainty Calculation is based on NIST Technical Note 1297 .

| | | |
|------------------------------|-----------|-----------|
| Frequency (MHz) | 0.15 30 | 30 1000 |
| Combined Uncertainty μ_c | 1.77 (dB) | 2.08 (dB) |

2. Product Information

- a. **Model :** TC-300R8
- b. **CPU Type :** N/A
- c. **System speed :** N/A
- d. **Crystal/Oscillator(s) :** N/A
- e. **Port/connector(s) :** N/A
- f. **Memory Expansion :** N/A
- g. **Power Rating :** **Input:** 115V-230V
Output: +3.3V/+5V/+12V/-5V/-12V/+5Vsb
14A /30A/ 12A/ 0.5A/ 0.8A/ 0.75A
- h. **Chassis Used :** N/A
- i. **Condition of the EUT :** Prototype Sample ☐ Engineering Sample
Production Sample
- j. **Test Item Receipt Date :** JULY / 06 / 2000

3. EUT Description and Test Methods

The equipment under test (EUT) is redundant power supply model No. TC-300R8 (or TC-250R8, TC-250R9, TC-300R8A, TC-400R8A, TC-400R8, TC-300R6, TC-400R6, TC-500R8A) all of models are identical product and identified by applicant , we only tested model TC-300R8 , for more detail information about EUT , please refer the user's manual .

Test method : the EUT was put inside a PC system to test and the system was enabled by “H” character program , the worst case testing result provided in this report .

As pre-scan , we took radiated emission first , EUT configuration including peripheral devices placement and data cables coupling was compliant with ANSI C63.4 requirement , test engineer tried to find the worst data cables coupling in order to perform the final test which conducted emission and radiated emission would keep the same configuration under test.

4. Modification(s):

The applicant upon signing the Declaration of Conformity agrees to incorporate the above modification(s) into all production units (see attached sample Declaration of Conformity).

N/A

5. Test Software Used

A test program which generates a complete line of continuously repeating “H” pattern is used as the software test program. The program was executed as follow :

- a. Read and write to the disk drives.
- b. Send signal to check keyboard .
- c. Send H pattern to the parallel port device (Printer).
- d. Send H pattern to the serial port device (Modem).
- e. Send H pattern to the video port device (Monitor).
- f. Repeat the above steps.

6. Support Equipment Used

1. Keyboard

FCC ID : E5XKB5121WTH0110

Manufacture : BTC

Model Number : 5121W

Data Cable Information :

- a. **Type :** Shielded , Detachable
- b. **Length :** 1 m
- c. **Back Shell :** Metal

2. Monitor

FCC ID : Declaration of Conformity(DoC)

Manufacture : SAMSUNG

Model Number : 550S

Power Cord : Shielded, Detachable, 1.2m

Data Cable Information :

- a. **Type :** Shielded , Detachable
- b. **Length :** 1 m
- c. **Back Shell :** Metal

3. Printer

FCC ID : B94C2642X

Manufacture : HEWLETT-PACKARD

Model Number : HP400

Power Supply Type : N/A

Power Cord : Shielded, Detachable, 1.2m

Data Cable Information :

- a. **Type :** N/A
- b. **Length :** N/A
- c. **Back Shell :** N/A

4. Modem × 2

FCC ID : IFAXDM1414

Manufacture : ACEEX

Model Number :

Power Supply Type :

Power Cord : Shielded, Detachable, 1.2m

Data Cable Information :

- a. **Type :** Shielded , Detachable
- b. **Length :** m
- c. **Back Shell :** Metal

5. Mouse

FCC ID : DZI211106

Manufacture : LOGITECH

Model Number : M-S43

Data Cable Information :

- a. **Type :** N/A
- b. **Length :** N/A
- c. **Back Shell :** N/A

6. Mother Board

FCC ID : N/A

Manufacture : INTEL

Model Number : SE440BX-2

Data Cable Information :

- a. **Type :** N/A
- b. **Length :** N/A
- c. **Back Shell :** N/A

7. VGA Card

FCC ID : N/A

Manufacture : S3

Model Number : 86C775

Data Cable Information :

- a. **Type :** N/A
- b. **Length :** N/A
- c. **Back Shell :** N/A

8. CPU

FCC ID : N/A

Manufacture : INTEL PEUTIUM

Model Number : 450MHZ

Data Cable Information :

- a. **Type :** N/A
- b. **Length :** N/A
- c. **Back Shell :** N/A

9. Ram

FCC ID : N/A

Manufacture : APACER

Model Number : 64MB

Data Cable Information :

- a. **Type :** N/A
- b. **Length :** N/A
- c. **Back Shell :** N/A

10. Hard Disk

FCC ID : N/A

Manufacture : QUANDUM

Model Number : 2.1GB

Data Cable Information :

- a. **Type :** N/A
- b. **Length :** N/A
- c. **Back Shell :** N/A

11. Floppy

FCC ID : N/A

Manufacture : MITSUMI

Model Number : 1.44MB

Data Cable Information :

- a. **Type :** N/A
- b. **Length :** N/A
- c. **Back Shell :** N/A

12. CD ROM

FCC ID : N/A

Manufacture : ACER

Model Number : 32X 632A-006

Data Cable Information :

- a. **Type :** N/A
- b. **Length :** N/A
- c. **Back Shell :** N/A

7. Description of Test Conducted

7.1 Conducted Emissions Limits

| Frequency | Maximum RF Line Voltage dB(uV) | | | |
|-------------|--------------------------------|---------|------------|---------|
| | Class A | | Class B | |
| MHz | QUASI-PEAK | AVERAGE | QUASI-PEAK | AVERAGE |
| 0.15 - 0.50 | 79 | 66 | 66-56 | 56-46 |
| 0.50 - 5.0 | 73 | 60 | 56 | 46 |
| 5.0 - 30 | 73 | 60 | 60 | 50 |

Remarks : In the above table, the tighter limit applies at the band edges.

8. Description of Test Radiated

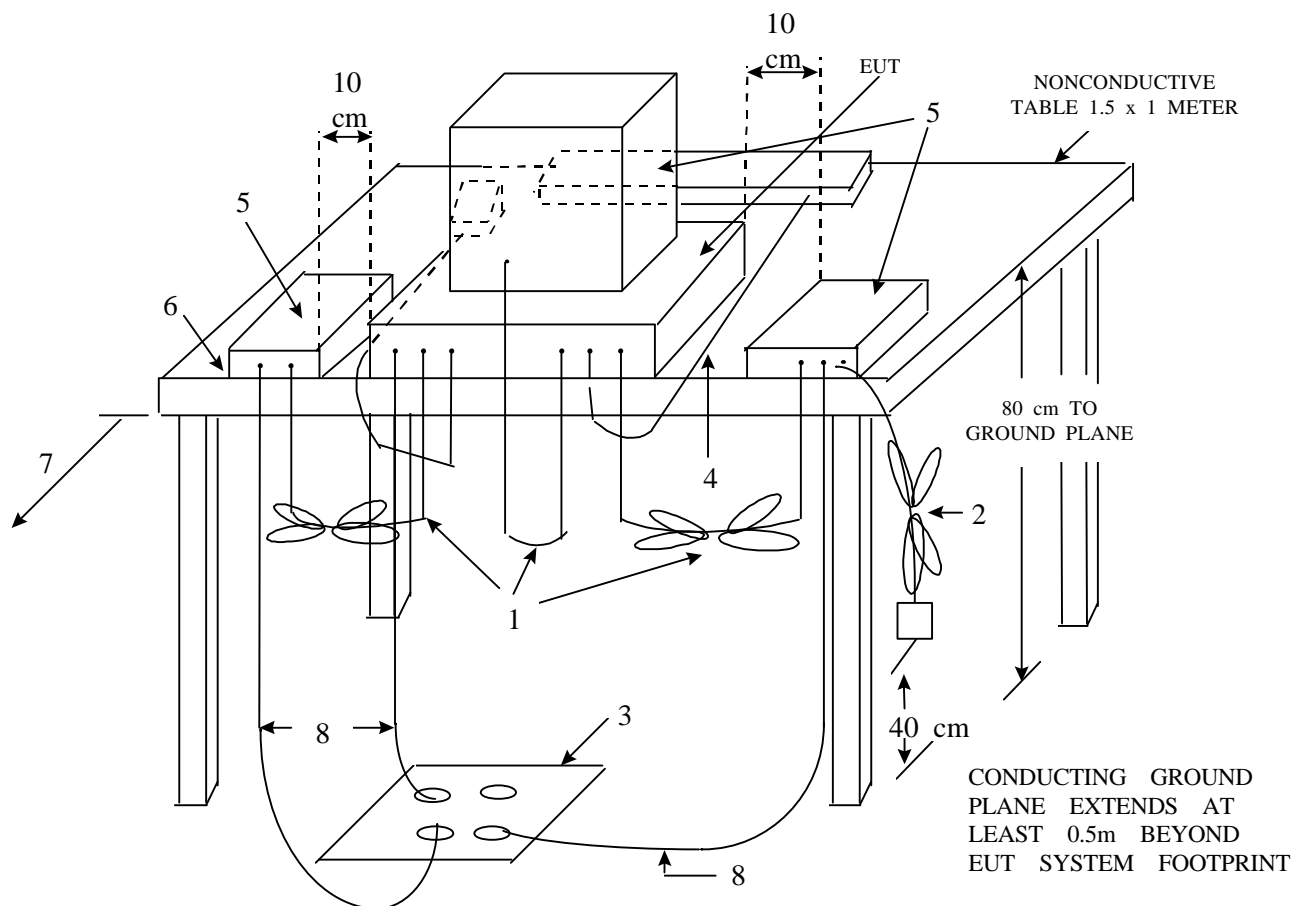
8.1 Radiated Emissions

Preliminary measurements were made indoors chamber at 3 meter using broadband antennas, broadband amplifier, and spectrum analyzer to determine the frequency producing the maximum EME. Appropriate precaution was taken to ensure that all EME from the EUT were maximized and investigated. The system configuration, clock speed, mode of operation or video resolution, turntable azimuth with respect to the antenna were noted for each frequency found. The spectrum was scanned from 30 to 1000 MHz using logbicon antenna. Above 1GHz, linearly polarized double ridge horn antenna was used.

Final measurements were made outdoors at 10-meter test range using logbicon antenna and horn antenna. The test equipment was placed on a wooden bench situated on a 1.5x1 meter area adjacent to the measurement area. Sufficient time for the EUT, support equipment, and test equipment was allowed in order for them to warm up to their normal operating condition. Each frequency found during pre-scan measurements was re-examined and investigated using Quasi-Peak Adapter. The detector function was set to CISPR quasi-peak mode and the bandwidth of the receiver was set to 120kHz.

The turntable containing the system was rotated; the antenna height was varied 1 to 4 meters and stopped at the azimuth or height producing the maximum emission. Each emission was maximized by: varying mode of operation or resolution; clock or data exchange speed; scrolling H pattern to the EUT and/or support equipment, and powering the monitor from the floor mounted outlet box and the computer aux AC outlet , if applicable; and changing the polarity of the antenna, whichever determined the worst-case emission. Photographs of the worst-case emission can be seen in radiated emission test photo.

8.2 Test Configuration



LEGEND

1. Interconnecting cables which hang closer than 40 cm to the ground plane shall be folded back and forth forming a bundle 30 to 40 cm long, hanging approximately in the middle between ground plane and table.
2. I/O cables which are connected to a peripheral shall be bundled in center. The end of the cable may be terminated if required using correct terminating impedance. The total length shall not exceed 1 m.
3. If LISN are kept in the test setup for radiated emissions, it is preferred that they be installed under the ground if requires receptacle flush with the ground plane.
4. Cables of hand-operated devices, such as keyboards, mouses, etc., have to be placed as close as possible to the controller.
5. Non-EUT components of EUT system being tested.
6. The rear of all components of the system under test shall be located flush with the rear of the table.
7. No vertical conducting wall used.
8. Power cords drape to the floor and are routed over to receptacle.

8.3 Radiated Emission Limits

Limits for radiated disturbance of Class A ITE at
a measuring distance of 10 m

| Frequency MHz | Field Strength dB(μ V/m) |
|---|----------------------------------|
| 30 to 230 | 40 |
| 230 to 1 000 | 47 |
| NOTES 1 The lower limit shall apply at the transition frequency. 2 Additional provisions may be required for cases where interference occurs. | |

Limits for radiated disturbance of Class B ITE at
a measuring distance of 10 m

| Frequency MHz | Field Strength dB(μ V/m) |
|---|----------------------------------|
| 30 to 230 | 30 |
| 230 to 1 000 | 37 |
| NOTES 1 The lower limit shall apply at the transition frequency. 2 Additional provisions may be required for cases where interference occurs. | |

9. Conducted Test Configuration Photo.

< FRONT VIEW >



10. Conducted Emissions Test Data

Model No. : TC-300R8
Frequency range : 150KHz to 30MHz
Detector : Peak Value
Temperature : 28
Humidity : 65 %

Test Data : # 1020 # 195 < LINE >
 # 1025 # 189 < NEUTRAL >

- Note
1. Level = Meter read + Cable Loss + LISN Factor
 2. Margin = Level – Limit
 3. LISN = AMN

DaTe of test: 06/29/2000

Data #:1020

EUT Model No :TC-300R8

Phase:LINE

Detector : Peak Value

| Frequency (MHz) | LISN Factor (dB) | Cable Loss (dB) | Meter read (dBuV) | Level (dBuV) | Limit (dBuV) | Margin (dBuV) |
|--------------------|------------------------|-----------------------|-------------------------|-----------------|-----------------|------------------|
| ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 0.153 | 0.10 | 0.90 | 47.01 | 48.01 | 65.82 | -17.81 |
| 0.157 | 0.10 | 0.93 | 64.20 | 65.23 | 65.60 | -0.37 |
| 0.176 | 0.10 | 1.05 | 53.61 | 54.76 | 64.68 | -9.92 |
| 0.251 | 0.10 | 1.58 | 49.40 | 51.08 | 61.73 | -10.65 |
| 0.461 | 0.10 | 1.66 | 41.80 | 43.56 | 56.67 | -13.11 |
| 0.989 | 0.10 | 1.75 | 41.40 | 43.25 | 56.00 | -12.75 |
| 2.273 | 0.12 | 1.70 | 38.59 | 40.41 | 56.00 | -15.59 |
| 6.951 | 0.38 | 1.64 | 38.59 | 40.61 | 60.00 | -19.39 |
| 11.870 | 0.58 | 1.50 | 38.40 | 40.48 | 60.00 | -19.52 |
| 20.056 | 0.90 | 1.58 | 29.61 | 32.09 | 60.00 | -27.91 |

Note: LISN Factor means LISN insertion loss.

DaTe of test: 06/29/2000

Data #:195

EUT Model No :TC-300R8

Phase:LINE

Detector : Average Value

| Frequency (MHz) | LISN Factor (dB) | Cable Loss (dB) | Meter read (dBuV) | Level (dBuV) | Limit (dBuV) | Margin (dBuV) |
|--------------------|------------------------|-----------------------|-------------------------|-----------------|-----------------|------------------|
| ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 0.157 | 0.10 | 0.93 | 29.40 | 30.43 | 55.60 | -25.17 |
| 0.176 | 0.10 | 1.05 | 45.61 | 46.76 | 54.68 | -7.92 |

Note: LISN Factor means LISN insertion loss.

DaTe of test: 06/29/2000

Data #:1025

EUT Model No :TC-300R8

Phase:NEUTRAL

Detector : Peak Value

| Frequency (MHz) | LISN Factor (dB) | Cable Loss (dB) | Meter read (dBuV) | Level (dBuV) | Limit (dBuV) | Margin (dBuV) |
|--------------------|------------------------|-----------------------|-------------------------|-----------------|-----------------|------------------|
| ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 0.151 | 0.10 | 0.88 | 62.41 | 63.39 | 65.96 | -2.57 |
| 0.253 | 0.10 | 1.57 | 50.80 | 52.47 | 61.64 | -9.17 |
| 0.387 | 0.10 | 1.73 | 44.19 | 46.02 | 58.12 | -12.10 |
| 0.716 | 0.10 | 1.73 | 40.59 | 42.42 | 56.00 | -13.58 |
| 1.203 | 0.10 | 1.73 | 41.60 | 43.43 | 56.00 | -12.57 |
| 2.201 | 0.11 | 1.69 | 37.81 | 39.61 | 56.00 | -16.39 |
| 4.822 | 0.28 | 1.74 | 33.20 | 35.22 | 56.00 | -20.78 |
| 8.367 | 0.52 | 1.61 | 36.00 | 38.13 | 60.00 | -21.87 |
| 14.213 | 0.86 | 1.48 | 37.20 | 39.54 | 60.00 | -20.46 |
| 23.263 | 1.24 | 1.66 | 26.79 | 29.69 | 60.00 | -30.31 |

Note: LISN Factor means LISN insertion loss.

DaTe of test: 06/29/2000

Data #:189

EUT Model No :TC-300R8

Phase:NEUTRAL

Detector : Average Value

| Frequency (MHz) | LISN Factor (dB) | Cable Loss (dB) | Meter read (dBuV) | Level (dBuV) | Limit (dBuV) | Margin (dBuV) |
|--------------------|------------------------|-----------------------|-------------------------|-----------------|-----------------|------------------|
| ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 0.151 | 0.10 | 0.88 | 28.20 | 29.18 | 55.96 | -26.78 |
| 0.253 | 0.10 | 1.57 | 44.80 | 46.47 | 51.64 | -5.17 |

Note: LISN Factor means LISN insertion loss.

11. Radiated Test Configuration Photo.

< FRONT VIEW >



< REAR VIEW >



12. Radiated Emissions Test Data

Model No. : TC-300R8
Frequency range : 30MHz to 1GHz **Detector** : Quasi-Peak Value
Frequency range : above 1GHz **Detector** : Quasi-Peak/Average Value
Temperature : 28 ° C **Humidity** : 65 %

Antenna polarization : HORIZONTAL ; **Test distance** : 10m ;

| Freq. (MHz) | Level (dBuV/m) | Over Limit (dB) | Limit Line (dBuV/m) | Read Level (dB) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Azimuth (angle) | Antenna High(m) |
|----------------|-------------------|-----------------------|---------------------------|-----------------------|-----------------------------|-----------------------|--------------------------|---------------------|--------------------|
| 70.224 | 21.89 | - 8.11 | 30.00 | 35.16 | 5.14 | 1.40 | 19.81 | 136.1 | 4.00 |
| 121.165 | 18.48 | -11.52 | 30.00 | 24.46 | 11.50 | 2.20 | 19.68 | 140.7 | 4.00 |
| 140.317 | 22.90 | - 7.10 | 30.00 | 29.90 | 10.60 | 2.20 | 19.80 | 140.8 | 4.00 |
| 174.728 | 22.55 | - 7.45 | 30.00 | 30.88 | 8.67 | 2.50 | 19.50 | 137.6 | 4.00 |
| 201.179 | 21.00 | - 9.00 | 30.00 | 28.93 | 8.96 | 2.71 | 19.60 | 143.5 | 4.00 |
| 255.492 | 23.40 | -13.60 | 37.00 | 26.83 | 12.84 | 3.33 | 19.60 | 140.2 | 4.00 |
| 389.314 | 23.19 | -13.81 | 37.00 | 23.28 | 15.34 | 4.58 | 20.01 | 133.8 | 4.00 |
| 417.084 | 28.11 | - 8.89 | 37.00 | 26.66 | 16.77 | 4.78 | 20.10 | 134.1 | 1.30 |
| 479.485 | 25.39 | -11.61 | 37.00 | 23.00 | 17.29 | 5.10 | 20.00 | 142.5 | 1.30 |
| 565.129 | 27.89 | - 9.11 | 37.00 | 23.39 | 18.75 | 5.59 | 19.84 | 142.9 | 1.50 |

Note :

1. Level = Read Level + Antenna Factor + Cable Loss – Preamp Factor
2. Over Limit = Level – Limit Line

Model No. : TC-300R8
Frequency range : 30MHz to 1GHz **Detector** : Quasi-Peak Value
Frequency range : above 1GHz **Detector** : Quasi-Peak/Average Value
Temperature : 34° C **Humidity** : 63 %

Antenna polarization : VERTICAL ; **Test distance :** 10m ;

| Freq. (MHz) | Level (dBuV/m) | Over Limit (dB) | Limit Line (dBuV/m) | Read Level (dB) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Azimuth (° angle) | Antenna High(m) |
|----------------|-------------------|-----------------------|---------------------------|-----------------------|-----------------------------|-----------------------|--------------------------|----------------------|--------------------|
| 72.005 | 22.64 | - 7.36 | 30.00 | 35.66 | 5.42 | 1.40 | 19.84 | 137.6 | 1.00 |
| 125.070 | 22.52 | - 7.48 | 30.00 | 28.42 | 11.50 | 2.20 | 19.60 | 149.9 | 1.00 |
| 148.153 | 18.00 | -12.00 | 30.00 | 25.24 | 10.12 | 2.36 | 19.72 | 136.3 | 1.00 |
| 171.094 | 16.67 | -13.33 | 30.00 | 24.57 | 9.10 | 2.50 | 19.50 | 137.7 | 1.00 |
| 201.185 | 22.09 | - 7.91 | 30.00 | 30.02 | 8.96 | 2.71 | 19.60 | 142.0 | 1.00 |
| 252.109 | 21.11 | -15.89 | 37.00 | 25.03 | 12.31 | 3.31 | 19.54 | 138.6 | 1.00 |
| 381.419 | 22.79 | -14.21 | 37.00 | 23.37 | 14.88 | 14.88 | 19.95 | 137.2 | 1.00 |
| 409.384 | 25.11 | -11.89 | 37.00 | 23.81 | 16.65 | 16.65 | 20.10 | 135.6 | 1.30 |
| 433.845 | 28.06 | - 8.94 | 37.00 | 26.86 | 16.36 | 16.36 | 20.03 | 141.5 | 1.40 |
| 564.318 | 27.51 | - 9.49 | 37.00 | 23.01 | 18.76 | 18.76 | 19.84 | 143.5 | 1.00 |

Note :

1. Level = Read Level + Antenna Factor + Cable Loss – Preamp Factor
2. Over Limit = Level – Limit Line

13. Listing of Measurement Facilities

| Emission | Instrument | Model No. | Serial No. | Cal. Date | Cal . Interval |
|----------------------|--------------------------|----------------|------------|---------------|----------------|
| Conduction (EMI4) | R & S Receiver | ESHS10 | 830223/008 | Oct. 21, 2000 | 1 Year |
| | Rolf Heine LISN (EUT) | NNB-4/ 63TL | 98008 | Non-EUT LISN | N/A |
| | R & S LISN (2'd) | ESH3-Z5 | 844982/039 | Jul. 21, 2000 | 1 Year |
| | RF cable | RG400 | | Apr. 15, 2001 | 1 Year |
| Radiation (O.P 1) | R & S Receiver | ESVS30 | 863342/012 | Apr. 17, 2001 | 1 Year |
| | R & S Pre-Amp. | ESMI-Z7 | 612278/011 | May 19, 2001 | 1 Year |
| | Anritsu Pre-Amp. | MH648A | M15080 | Jun. 01, 2001 | 1 Year |
| | COM-POWER Horn Ant. | AH-118 | 10056 | Aug. 24, 2000 | 1 Year |
| | EMCO RF bable | 175 series | No. 1 | Apr. 15, 2001 | 1 Year |

14. Duties of The Responsible Party

The responsible party upon signing or accepting the Declaration of Conformity as specified in Section 2.906 of the FCC Rules hereby agrees to the duties listed below.

§.1073(a).

The responsible party warrants that each unit of equipment marketed under DoC is identical to the unit tested and found acceptable with the standards and that the records maintained by the responsible party continue to reflect the equipment being produced is within the variation that can be expected due to quantity production and testing on a statistical basis.

§.1073(b).

The responsible party must have a written statement from the manufacturer or accredited test laboratory that the equipment complies with the appropriate technical standards.

§.1073(c).

In case of transfer of control of equipment, as in the case of sale or merger, the new responsible party shall bear the responsibility of continued compliance of the equipment.

§.1073(d).

Equipment shall be retested if any modifications or changes are made that could adversely affect the emanation characteristics of the equipment.

§.1073(e).

If any modifications or changes made by anyone other than the responsible party, the party making the modifications or changes, if located within the U.S., becomes the new responsible party. The new responsible party must comply with all provisions for the DoC, including having test data on file demonstrating that the product continues to comply with all of the applicable technical standards.

§.1075(a)(1).

The responsible party shall maintain records of the original design drawings and specifications and all changes made to the product that may affect compliance.

§.1075(a)(2).

The responsible party shall maintain records of the procedures used for production inspection and testing to insure the conformance with the FCC Rules.

§.946(a)(1).

The test report data shall be provided to the FCC within 14 days of delivery of request. The test sample(s) shall be provided within 60 days of delivery of request.

§.946(b)


In case involving harmful interference or safety of life or property, the production sample must be provided within 60 days, but not less than 14 days. Failure to comply with such a request with the time frame shown may be cause for forfeiture, pursuant to Section 1.80 of Part 1 of the FCC Rules.

**The Responsible Party is the manufacturer, system integrator, or the importer as defined in Section 2.909 of the FCC Rules. The Rules. The Responsible Party for a DoC must be located within the United States as specified in Section 2.1077.*

15. Labelling Requirements

per §§.1074 & 15.19; Docket 95-19

The sample label shown below shall be permanently affixed at a conspicuous location on the device, instruction manual or pamphlet supplied to the user and be readily visible to the purchaser at the time of purchase. However, when the device is so small wherein placement of the label with specified statement is not practicable, only the trade name, model number, and the FCC logo must be displayed on the device per Section §5.19 (b)(2).

| | |
|---|--|
| Trade Name | Model Number |
|  | Tested To Comply With FCC Standards |
| FOR HOME OR OFFICE USE | |

16. Information To The User

For a Class B digital device or peripheral, the instructions furnished the user shall include the following or similar statement, placed in a prominent location in the text of the manual:

Federal Communications Commission (FCC) Statement

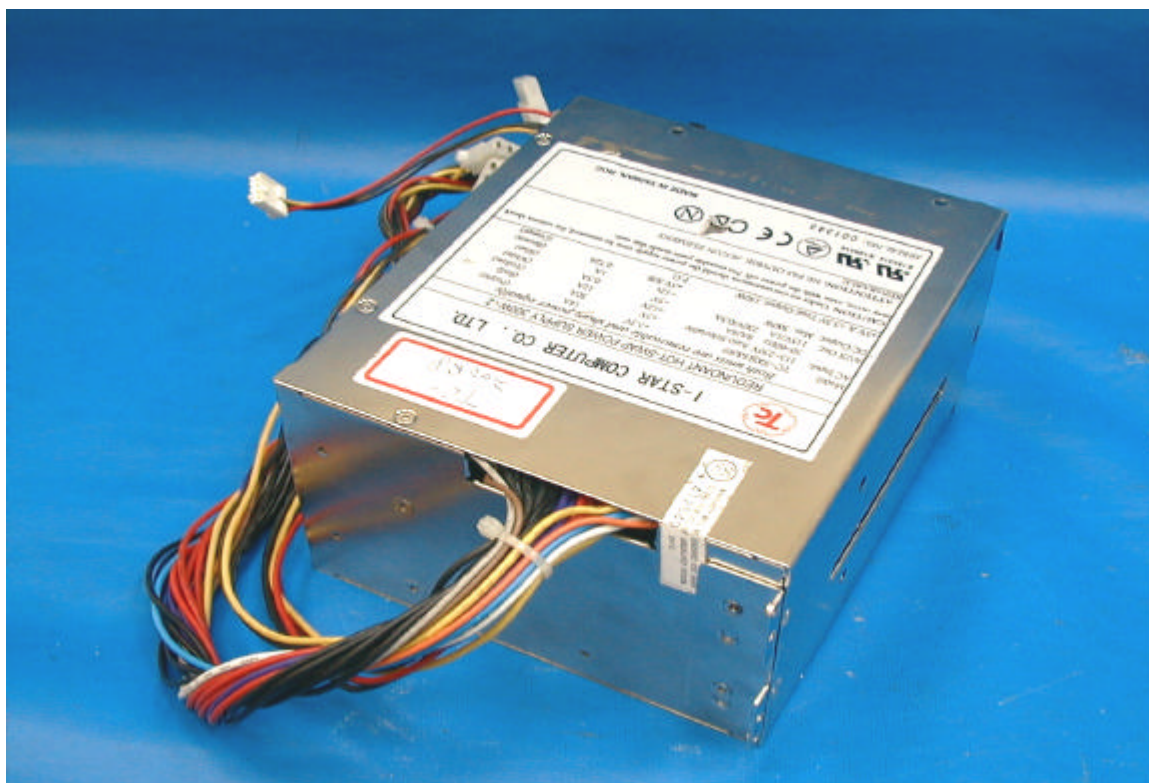
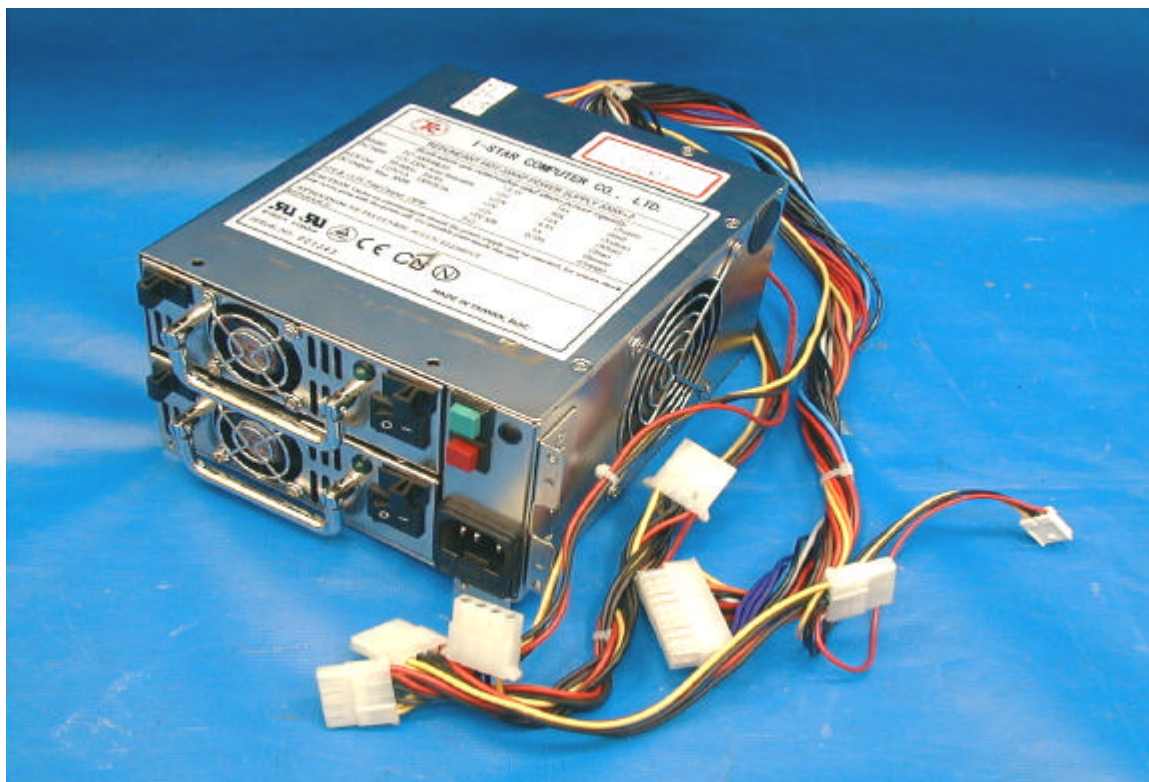
This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instruction, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures :

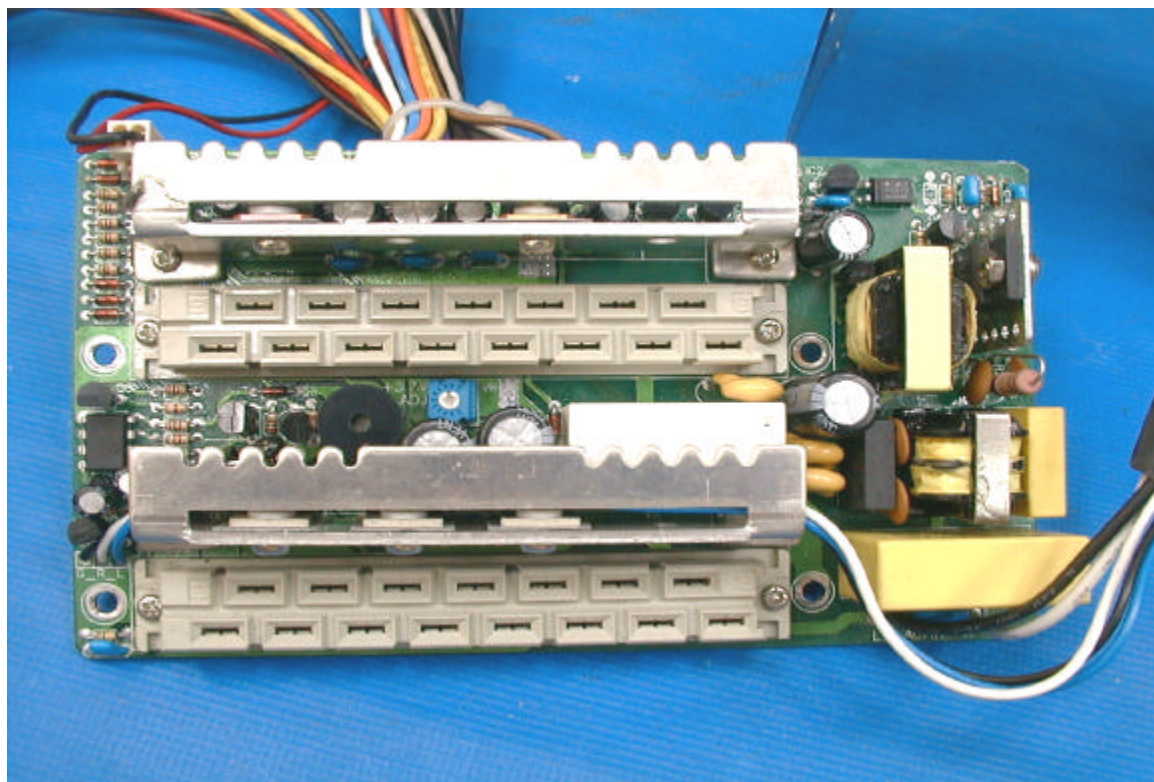
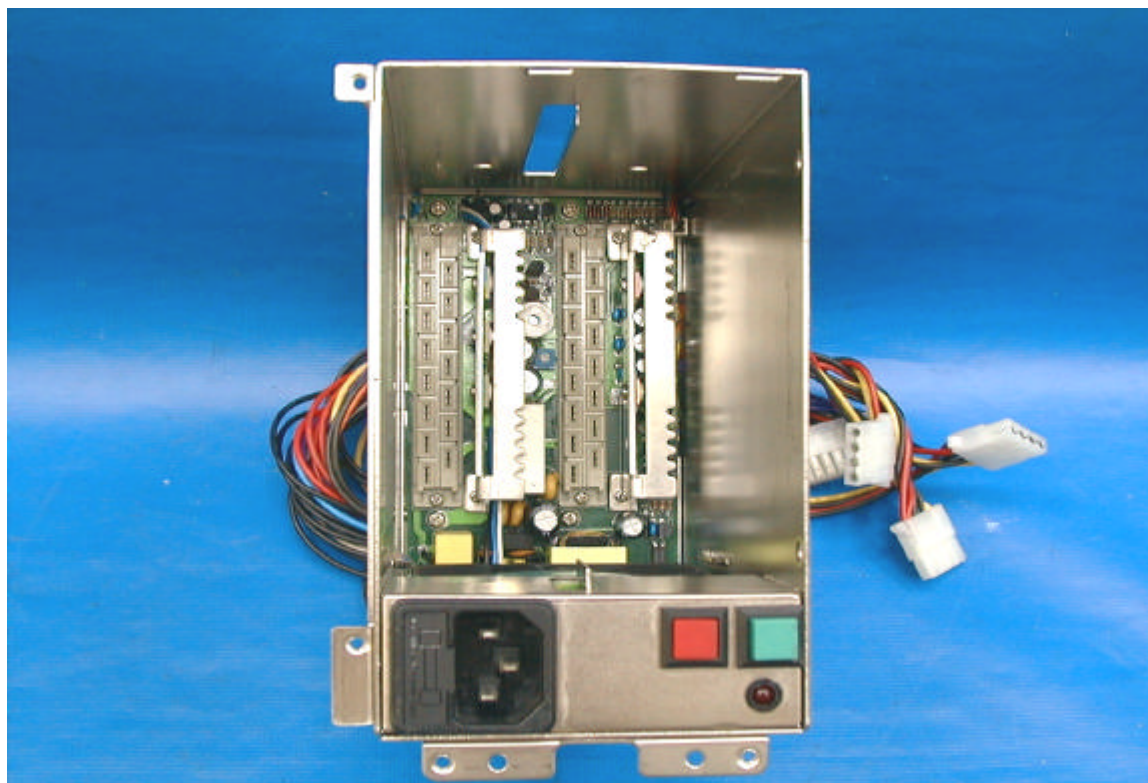
- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver .
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected .
- Consult the dealer or an experienced radio / TV technician for help .

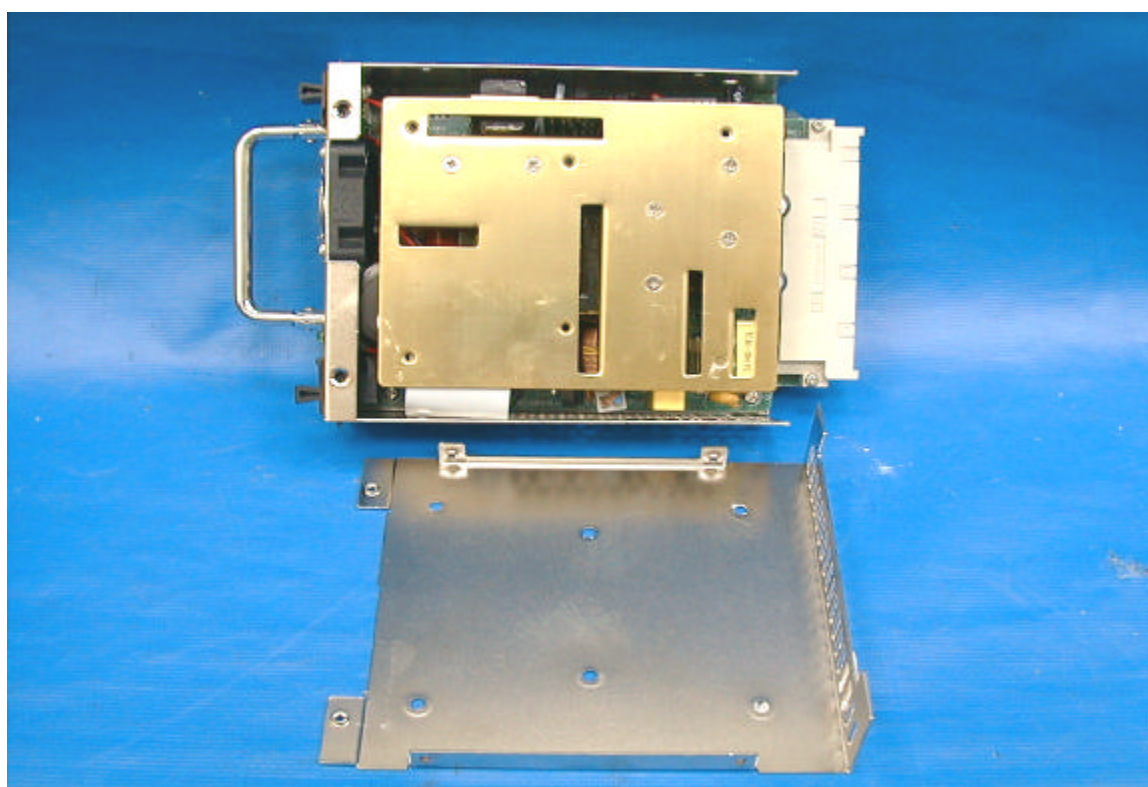
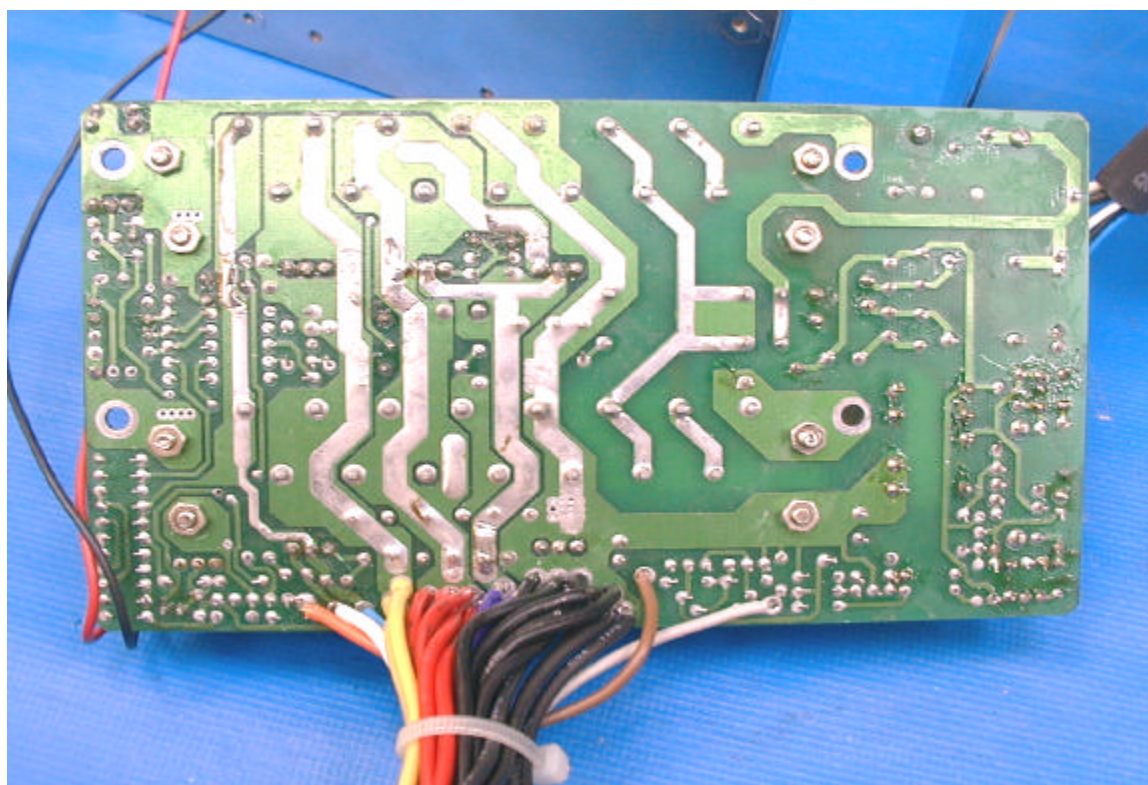
17. EUT Photographs

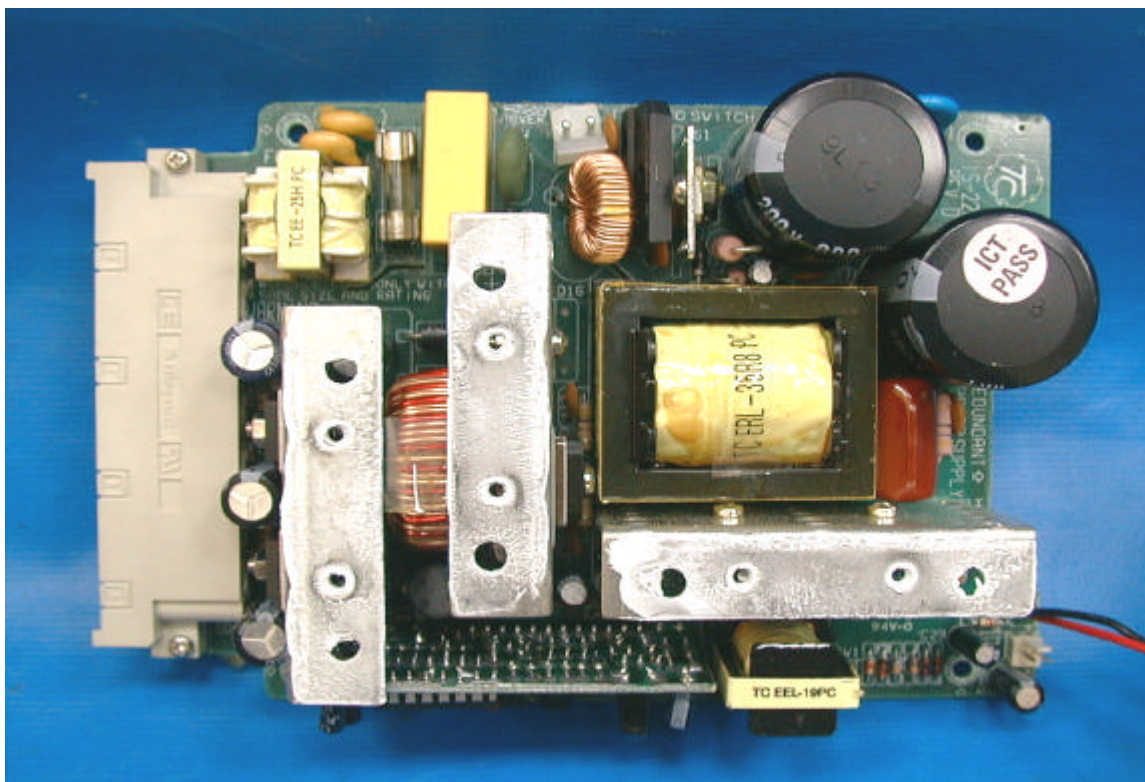
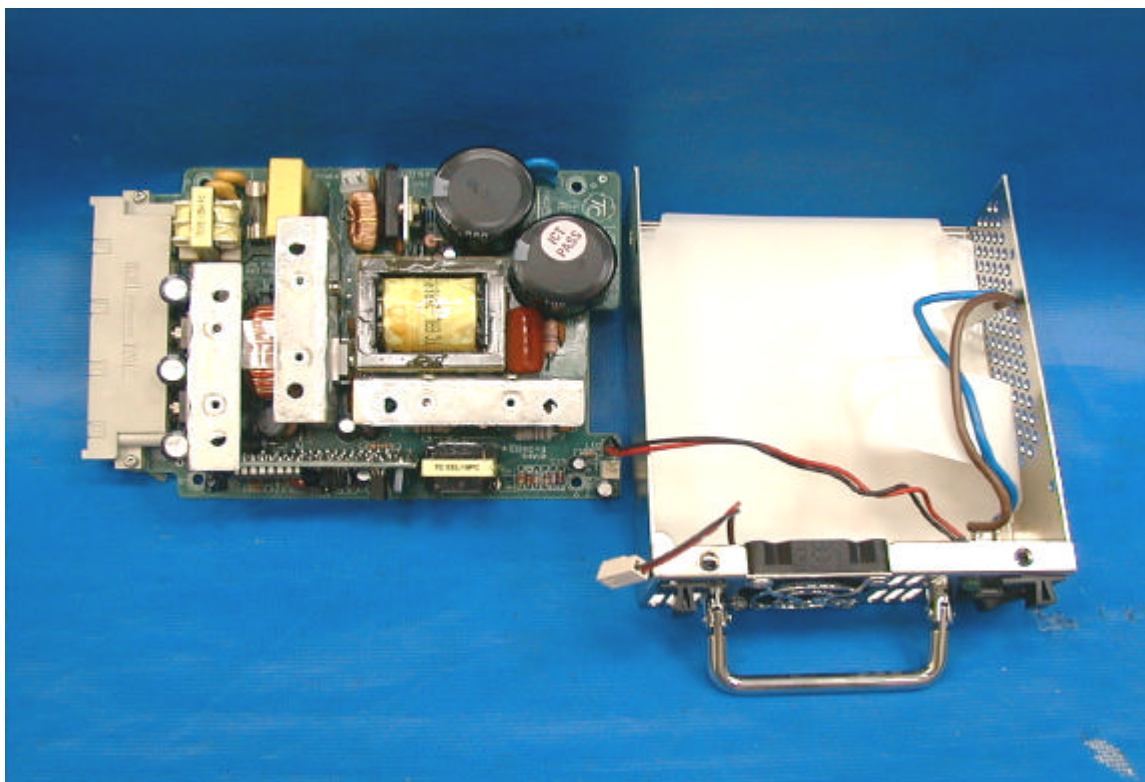
Model No. : TC-300R8

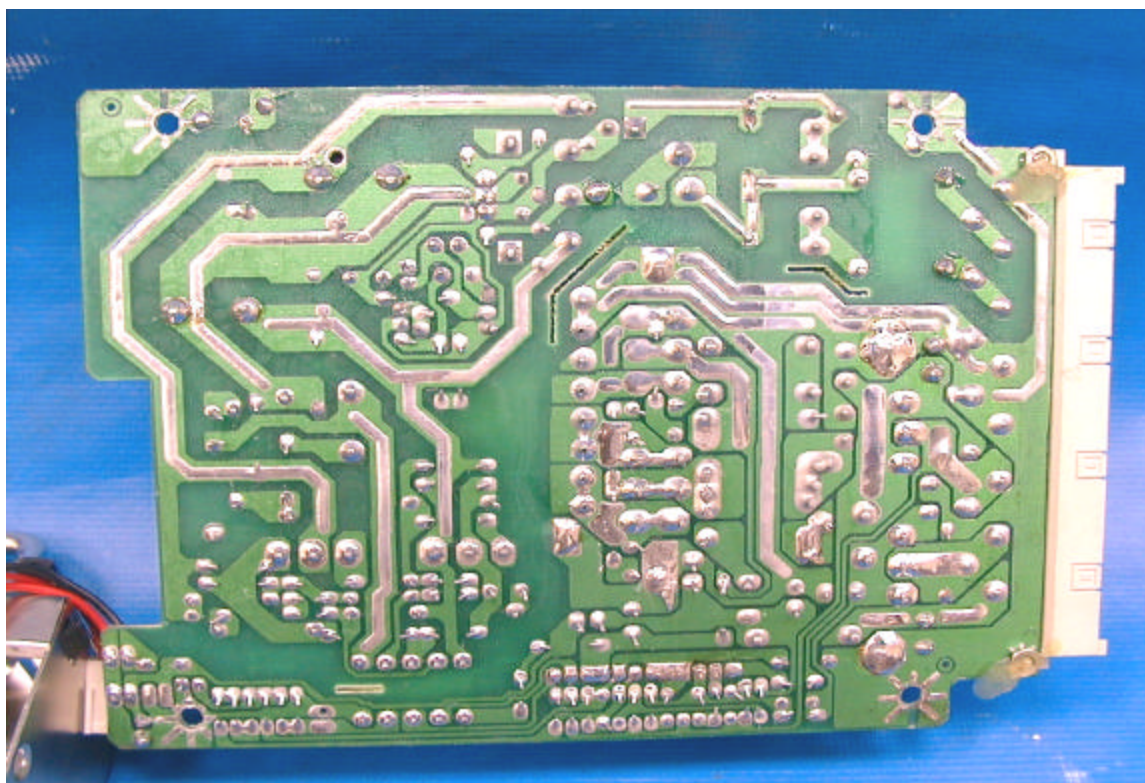










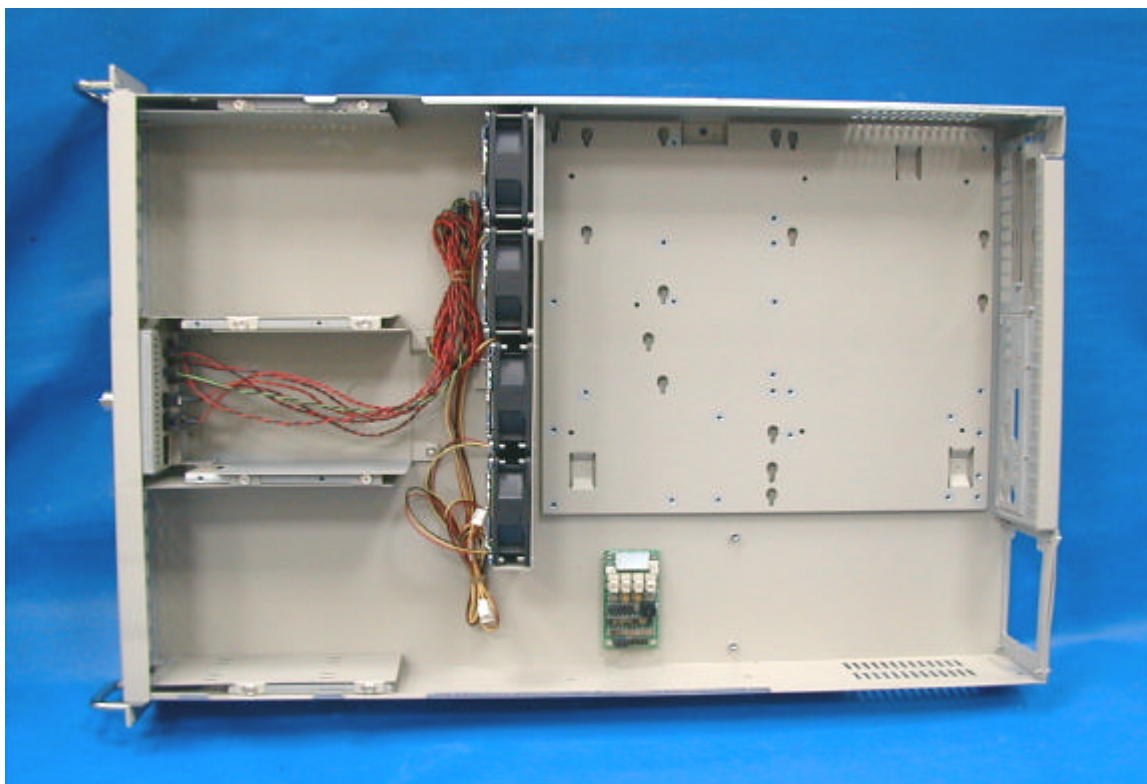


MODEL NO. : JOY-294A





MODEL NO. : JOY-298





MODEL NO. :JOY- 528E





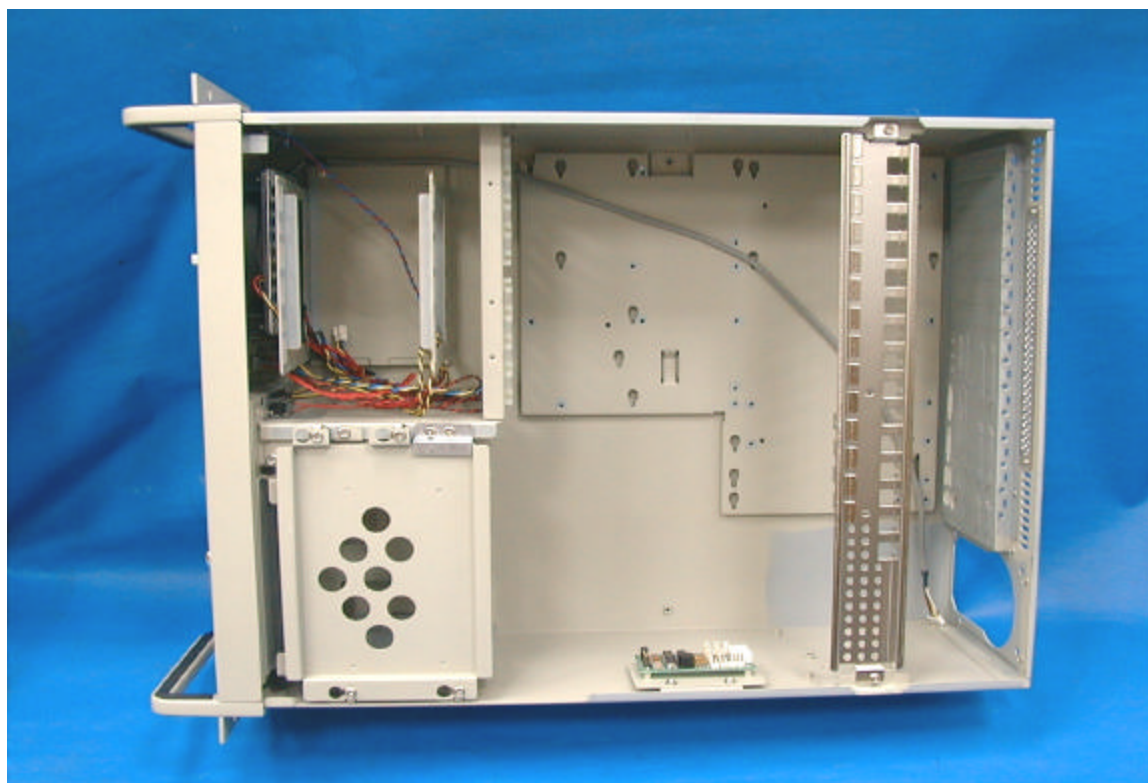
MODEL NO. : JOY-565ATX





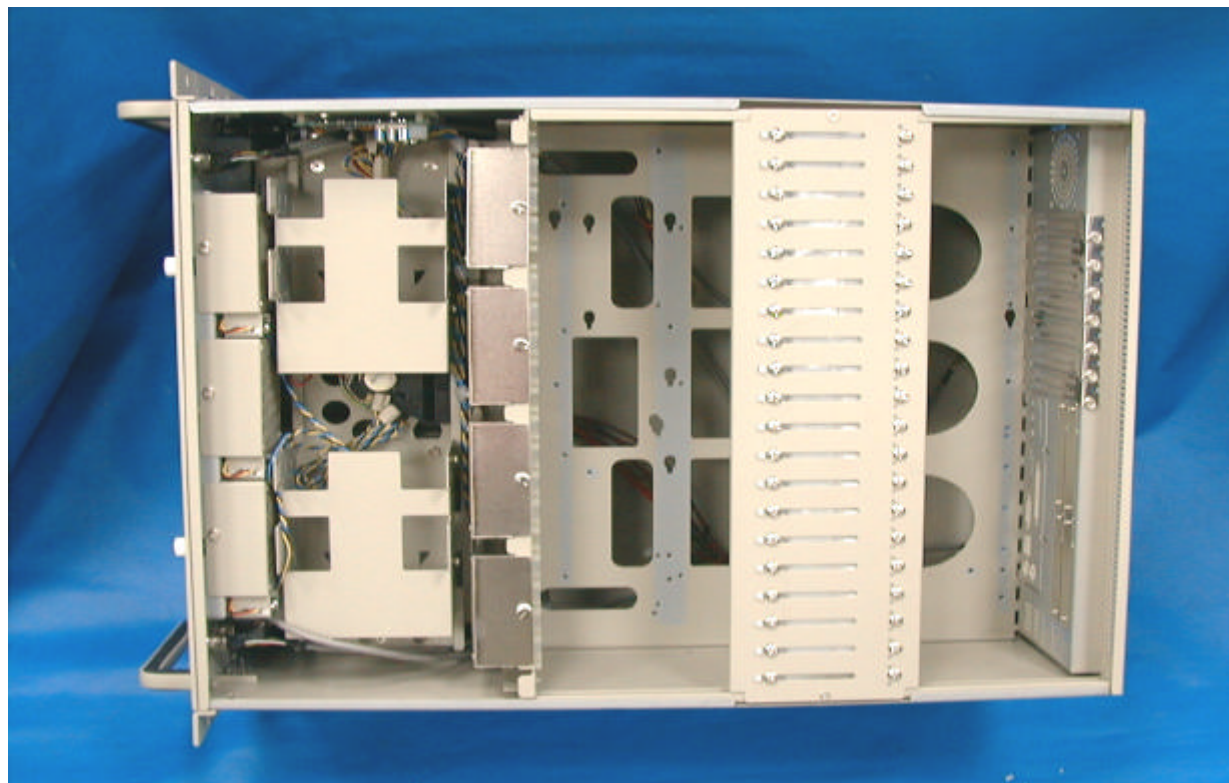
MODEL NO. : JOY-587ATX





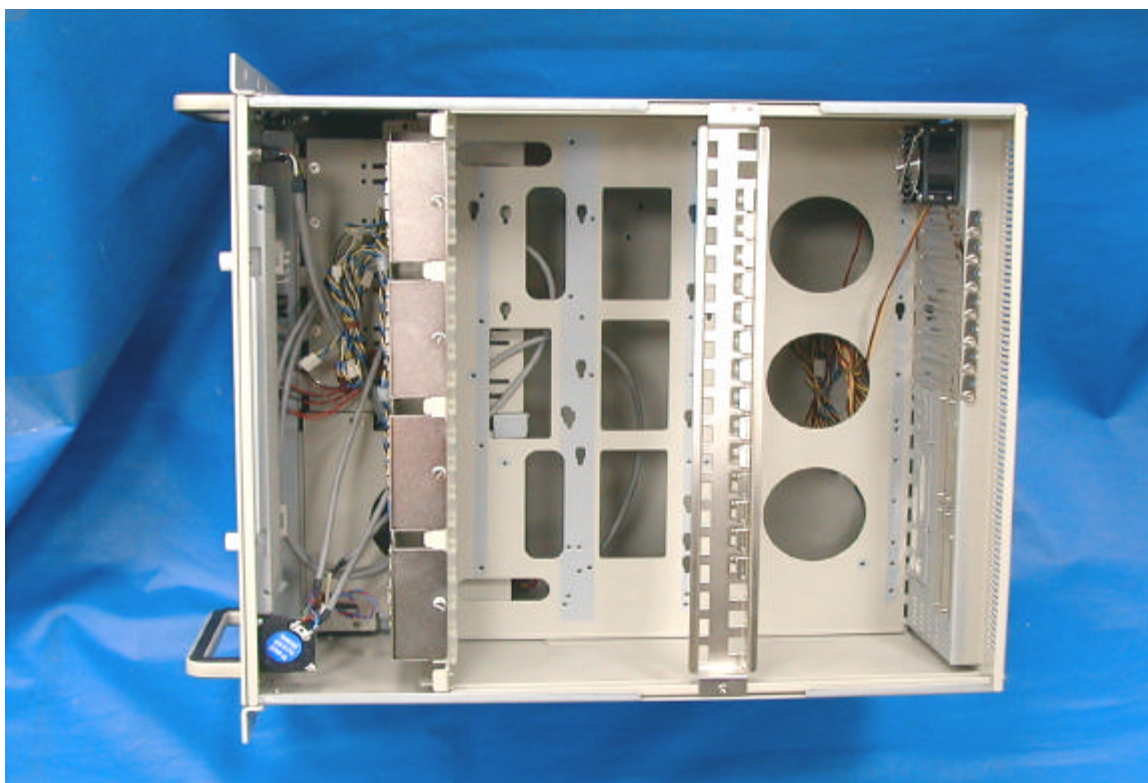
MODEL NO. : JOY-828CATX





MODEL NO. : JOY-888ATX





DECLARATION OF CONFORMITY CERTIFICATE

Responsible Party : I-STAR COMPUTER CO., LTD

Address : 2F, NO.33 LANE42, CHUNG SHIN NORTH ST., SAN CHUNG CT,
TAIPEI, TAIWAN, R. O. C.

Contact Person : David Yeh / Manager

Equipment : Redundant Power Supply

Model No.: TC-300R8, TC-250R8, TC-250R9, TC-300R8A, TC-400R8A,
TC-400R8, TC-300R6, TC-400R6, TC-500R8A

Traceability: FCC Part 15 & Part 2; Docket 95-19

Limitation: CISPR 22 CLASS B

Date of issued: JULY 13, 2002

Report No.: E890381

The device bearing the trade name and model specified above has been shown to comply with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in ANSI C63.4-1992. (See Test Report if any modifications were made for compliance.)

PEP certifies that no party to this application has been denied the FCC benefits pursuant to Section 5301 of the Anti-Drug Abuse Act of 1988, 21 U.S.C. 853(a).



Peter Kao/NVLAP Signatory

DECLARATION OF CONFORMITY

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Responsible Party: I-STAR COMPUTER CO., LTD

Address: 2F, NO.33 LANE42, CHUNG SHIN NORTH ST.,
SAN CHUNG CT, TAIPEI, TAIWAN, R. O. C.

Contact Person: David Yeh / Manager

Phone No.: 886-2-2999-5951 Fax No.: 886-2-2999-5933

Equipment : Redundant Power Supply
Model No. : TC-300R8, TC-250R8, TC-250R9, TC-300R8A, TC-400R8A,
TC-400R8, TC-300R6, TC-400R6, TC-500R8A

We hereby declare that the equipment bearing the trade name and model number specified above was tested conforming to the applicable FCC Rules under the most accurate measurement standards possible, and that all the necessary steps have been taken and are in force to assure that production units of the same equipment will continue to comply with the Commission's requirements.



Signature

Date