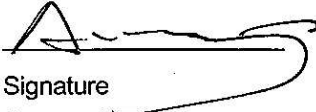
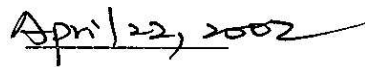

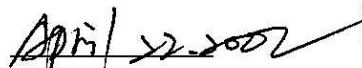





Test Report No.: LD88070204B	
Client	
Name :	ADVANTECH CO., LTD
Address :	No. 1 Alley 20, Lane 26, Rueiguang Road, Neihsu District Taipei 114, Taiwan, R.O.C.
Test Item :	Industrial Computer
Identification :	ACP-2000XXX-XXX (X can be any alphanumeric character or blank)
Testing laboratory	
Name :	Advance Data Technology Corporation
Address :	No. 46, Lane 504, Chung Hsiao Road, Lin Kou Hsiang, Taipei, R.O.C.
Test specification	
Standard :	EN 60 950:1992 + A1:1993 + A2:1993 + A3:1995 + A4:1996 + A11: 1997
Test Result :	The test item passed.
Tested By :	
 Signature Angus Hsu Deputy Manager	 Date
Approved By:	
 Signature Edward Chiueh Manager	 Date
Other Aspects: The completed test report includes the following documents: ■ EN 60950 report (7 pages)	 0528 ILAC MRA
The test report shall not be reproduced except in full, without written approval of the laboratory. This test report does not entitle to carry any safety mark on this or similar products.	



TEST REPORT EN 60950 Safety of information technology equipment including electrical business equipment	
Report Reference No.....: LD88070204B Compiled by (+ signature): See cover sheet Approved by (+ signature): See cover sheet Date of issue: April 22, 2002 This report is based on a blank test report that was prepared by KEMA using information obtained from the TRF originator (see below).	
Testing laboratory Name.....: Advance Data Technology Corporation Address.....: No. 46, Lane 504, Chung Hsiao Road, Lin Kou Hsiang, Taipei, Taiwan. Testing location.....: Advance Data Technology Corporation Address: No. 46, Lane 504, Chung Hsiao Road, Lin Kou Hsiang, Taipei, Taiwan.	
Client Name.....: ADVANTECH CO., LTD Address.....: No. 1 Alley 20, Lane 26, Rueiguang Road, Neihu District Taipei 114, Taiwan, R.O.C.	
Test specification Standard.....: EN 60 950:1992 + A1:1993 + A2:1993 + A3:1995 + A4:1996 +A11:1997 Test procedure: This Test Report is not valid as a CCA Test Report unless signed by a CCA Testing Laboratory and appended to a CCA Test Certificate. Procedure deviation.....: N/A. Non-standard test method.....: N/A.	
Test Report Form/blank test report Test Report Form No.....: 60950__D/97-08 TRF originator.....: FIMKO Master TRF.....: Reference No. 60950 D, dated 97-02 Copyright reserved to the bodies participating in the Committee of Certification Bodies (CCB) and/or the bodies participating in the CENELEC Certification Agreement (CCA).	
Test item Description.....: INDUSTRIAL COMPUTER Trademark.....: ADVANTECH Model and/or type reference.....: ACP-2000XXX-XXX (X can be any alphanumeric character or blank) Manufacturer.....: ADVANTECH CO., LTD. Rating(s).....: AC 100 - 240 V, 60-50Hz, 6-3 A.	

Copy of marking plate

Industrial Computer
ADVANTECH CO., LTD.

Model: ACP-2000XXX-XXX

Manufactured: April, 2002

POWER: 100-240 V~, 60-50 Hz, 6-3 A

THIS DEVICE COMPLIES WITH PART 15 OF FCC RULES. OPERATION
IS SUBJECT TO THE FOLLOWING TWO CONDITIONS:

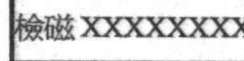
(1) THIS DEVICE MAY NOT CAUSE HARMFUL INTERFERENCE. AND

(2) THIS DEVICE MUST ACCEPT ANY INTERFERENCE RECEIVED.

INCLUDING INTERFERENCE THAT MAY CAUSE UNDESIRE OPERATION



Manufactured: No. 1, Alley 20, Lane 26, Rueiguang
Road, Neihu District Taipei 114, Taiwan R.O.C.



**Particulars: test item vs. test requirements**

Equipment mobility.....: Moveable or rack mountable
Operating condition.....: Continuous
Tested for IT power systems.....: N/A
IT testing, phase-phase voltage (V): N/A
Class of equipment.....: Class I
Mass of equipment (kg): 12.5kg
Protection against ingress of water: IPX0

Test case verdicts

Test case does not apply to the test object.....: N(.A.)
Test item does meet the requirement.....: P(ass)
Test item does not meet the requirement.....: F(ail)

Testing

Date of receipt of test item: April 8, 2002
Date(s) of performance of test: April 18, 2002

General remarks

This test report shall not be reproduced except in full without the written approval of the testing laboratory.
The test results presented in this report relate only to the item tested.
"(see remark #)" refers to a remark appended to the report.
"(see appended table)" refers to a table appended to the report.
Throughout this report a comma is used as the decimal separator.

Brief description of the test equipment:

Model Difference: All Models are identical except for Model designation.

Test condition:

Temperature : 25°C .
Relative humidity: 60%
Air pressure: 900 mbar.

The test sample was a pre-production sample without serial number.

This is a supplementary report of LD88070204 except for alternating a certified power supply and Model designation.



EN 60950			
Clause	Requirement + Test	Result - Remark	Verdict

1.5.1	TABLE: list of critical components				P
object/part No.	manufacturer/ trademark	type/model	technical data	Standard	mark(s) of conformity ¹⁾
1. Power supply	Zippy	MRT-6300P-R	Input: 100-240 V ac, 60-50 Hz, 6/3A. Output: +12 V dc/16 A -12 V dc/0.8 A +5 V dc/25 A +5 Vsb/2A +3.3 V/18A -5 V/0.5A	IEC60950	UL, TUV



EN 60950			
Clause	Requirement + Test	Result - Remark	Verdict

1.6	TABLE: electrical data (in normal conditions)					P
fuse #	Irated (A)	U (V)	P (W)	I (A)	Ifuse (A)	condition/status
In SPS	---	90/50Hz	108.3	1.20	1.20	Maximum Normal Load
	6.0	100/50Hz	107.0	1.07	1.07	Maximum Normal Load
	3.0	240/50Hz	101.5	0.48	0.48	Maximum Normal Load
	---	254/50Hz	100.7	0.46	0.46	Maximum Normal Load
	---	90/60Hz	108.2	1.20	1.20	Maximum Normal Load
	6.0	100/60Hz	107.1	1.06	1.06	Maximum Normal Load
	3.0	240/60Hz	102.2	0.51	0.51	Maximum Normal Load
	---	254/60Hz	102.3	0.49	0.49	Maximum Normal Load

5.1	TABLE: temperature rise measurements		P
	test voltage (V)	90/254/240 All fan locked/ventilation opening blocked.	—
	t1 (°C)	---	—
	t2 (°C)	---	—
Temperature rise dT of part/at:		dT (K)	Required dT (K)
Room Ambient		27°C/27°C/27°C/27°C	--
Power supply 1 C1 body		12/12/19/27	55
Power supply 1 T3 coil		10/10/19/23	45
Power supply 1 T3 core		11/11/20/24	45
Power supply 1 L4 coil		13/13/22/27	55
Power supply 2 C1 body		12/11/18/26	55
Power supply 2 T3 coil		11/11/17/22	45
Power supply 2 T3 core		10/10/18/24	45
Power supply 2 L4 coil		11/11/20/25	55
PWB near CPU		11/11/17/20	55
C142 body		7/7/12/15	---
U16 body		15/15/22/23	---
U20 body		18/18/24/25	---
BT1 body		7/7/12/25	---
Enclosure inside near power		5/4/11/17	---
Enclosure outside near power		4/4/8/14	20



EN 60950			
Clause	Requirement + Test	Result - Remark	Verdict

5.3	TABLE: electric strength measurements		P
test voltage applied between:		test voltage (V)	breakdown
Primary and secondary		DC 3000V	No
Primary and ground		DC 3000V	No

5.4	TABLE: fault condition tests						
	ambient temperature (°C)					25 °C, if no else specified	--
	model/type of power supply					MRT-6300P-R	--
	manufacturer of power supply					Zippy	--
	rated markings of power supply					See table 1.5.1	--
No.	component No.	fault	test voltage (V)	test time	fuse No.	fuse current (A)	result
01	Ventilation openings	Blocked	240	2.0 hrs	--	--	Temperature of T3 core/coil = 50/51, 49/51°C, no hazard (Power 1/2)
02	All fan	Stalled	240	1.0 hrs	--	--	Temperature of T1 core/coil = 46/47, 44/45°C, no hazard. (Power 1/2)