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**INTERNATIONAL ELECTROTECHNICAL  
COMMISSION (IEC)**  
*COMMISSION ELECTROTECHNIQUE  
INTERNATIONALE (CEI)*

Ref. Certif. No.

DK-6664-A1

**IEC SYSTEM FOR CONFORMITY TESTING  
AND CERTIFICATION OF ELECTRICAL  
EQUIPMENT (IECEE)  
CB SCHEME**

**SYSTÈME CEI D'ESSAIS DE CONFORMITÉ  
ET DE CERTIFICATION DES ÉQUIPEMENTS  
ÉLECTRIQUES (IECEE)  
MÉTHODE OC**

## CB TEST CERTIFICATE CERTIFICAT D'ESSAI OC

Product  
*Produit*

Name and address of the applicant  
*Nom et adresse du demandeur*

Name and address of the manufacturer  
*Nom et adresse du fabricant*

Name and address of the factory  
*Nom et adresse de l'usine*

Rating and principal characteristics  
*Valeurs nominales et caractéristiques principales*

Trade mark (if any)  
*Marque de fabrique (si elle existe)*

Model/type Ref.  
*Ref. de type*

Additional information (if necessary)  
*Information complémentaire (si nécessaire)*

A sample of the product was tested and found  
to be in conformity with  
*Un échantillon de ce produit a été essayé et a été  
considéré conforme à la*

as shown in the Test Report Ref. No.  
which form part of this certificate  
*comme indiqué dans le Rapport d'essais numéro  
de référence*  
*qui constitue une partie de ce certificat*

**Industrial Computer**

Advantech Co., Ltd.  
4<sup>th</sup> Fl., No. 108-3, Ming-Chuan Road, Shing-Tien City, Taipei Hsien, Taiwan

Same as applicant

See appendix

100-240 Vac, 60-50 Hz, 6-3 A, IP20 Class I

Advantech

MIC-3041xxxxx

"x" = 0-9, A-Z or blank. The CB certificate is an appendix to CB certificate No.  
6664 due to add of new factory and change of model type

**PUBLICATION**

**EDITION**

IEC 60950:1999

3<sup>rd</sup>

E180881-A14 CB-1 with amendment 1 2003-08-18

This CB Test Certificate is issued by the National Certification Body  
*Ce Certificat d'essai OC est établi par l'Organisme National de Certification*

Date 2003-08-20

Signature

Karina Christiansen  
Certification Manager

**UL International Demko A/S**  
Lyskaer 8, P.O. Box 514  
DK-2730 Herlev, Denmark  
Telephone: +45 44856565  
Fax: +45 44856500

Internal Ref.:

Jakob Pedersen



An Affiliate of  
**Underwriters  
Laboratories Inc.**

## Appendix to CB-Certificate No. DK-6664-A1

**Production Site:**

Advantech Co., Ltd.

5th Fl. 1, Lane 169 Kang-Ning Street, Xi-Zhi Town, Taipei Hsien  
Taiwan

Advantech Co., Ltd.

3rd FL, 10 Lane 130, Ming Chuan Rd., Hsin-Tien City, Taipei Hsien 231  
Taiwan

Superior Co., Ltd.

Tiensong Area QingXing Town, Dongguan, Guangdong  
China

Advantech Co., Ltd.

No. 600, Han-Pu Road, Yu-Shan, Kun-Shan, Jiang Su  
China

Beijing Yan Hua Xing Ye Electronic Science & Technology Co., Ltd.

No. 7, 6<sup>th</sup> Street, Shang Di Zone, Haidian District, Beijing,  
P.R. China

Herlev, 2003-08-20

  
Karina Christiansen  
Certification Manager

**UL International Demko A/S**

Lyskaer 8, P.O. Box 514  
DK-2730 Herlev, Denmark  
Telephone: +45 44856565  
Fax: +45 44856500



An Affiliate of  
**Underwriters  
Laboratories Inc.**

## **COVER PAGE FOR TEST REPORT**

Test Item Description:	Industrial Computer
Model/Type Reference:	MIC-3041xxxxxx where "x"=0-9, A-Z or blank.
Rating(s):	100 - 240 V ac, 60 - 50 Hz, 6 - 3 A
Standards:	IEC60950, Third Edition (1999)
Applicant Name and Address:	ADVANTECH CO LTD 4TH FL 108-3 MING-CHUAN RD SHING-TIEN CITY TAIPEI HSIEN TAIWAN
Factory Location(s):	(1) ADVANTECH CO LTD 5TH FL 1 LANE 169 KANG-NING ST., XI-ZHI TOWN, TAIPEI HSIEN TAIWAN  (2) ADVANTECH CO LTD 3RD FL 10 LANE 130 MING CHUAN RD HSIN-TIEN TAIPEI HSIEN TAIWAN  (3) SUPERIOR CO LTD TIENSONG AREA QINGXING TOWN DONGGUAN GUANGDONG CHINA  (4) ADVANTECH CO LTD NO. 600 HAN-PU ROAD YU-SHAN KUN-SHAN JIANGSU CHINA  (5) BEIJING YAN HUA XING YE ELECTRONIC SCIENCE & TECHNOLOGY CO., LTD. NO.7, 6TH STREET, SHANG DI ZONE, HAIDIAN DISTRICT, BEIJING, P.R. CHINA.

This Report includes the following parts, in addition to this cover page:

1. Specific Technical Criteria
2. Clause Verdicts
3. Critical Components

The original report was modified on 2003-08-18 to include the following changes/additions:

- This test report shall be read in conjunction with the original report, number
- 1. E180881-A14-CB-1, issued May 29, 2003, with CB Certificate, DK-6664, issued June 10, 2003.
- This test report has been amended, due to
- 1. Change model name, from "MIC-3041" to "MIC-3041xxxxxx", where "x" = 0-9, A-Z or blank.
- 2. Add a new factory:  
Beijing Yan Hua Xing Ye Electronic Science & Technology Co., Ltd.  
No.7, 6th Street, Shang Di Zone, Haidian, District, Beijing, P.R. China.
- No tests were considered necessary.

All applicable tests according to the above standard(s) have been carried out.


Test results are valid only for the tested equipment.

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Amendments and corrections can be reproduced only with the original CB Test Report.

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<b>TEST REPORT</b> <b>IEC 60950</b> <b>Safety of information technology equipment</b>	
Report Reference No .....	E180881-A14-CB-1
Compiled by (+ signature) .....	Rasul M. Balacu
Reviewed by (+ signature) .....	Jakob Petersen
Approved by (+ signature) .....	Jakob Petersen
Date of issue .....	2003-05-29
CB Testing Laboratory .....	UL International Demko A/S
Address .....	Lyskaer 8, 2730, Herlev, Denmark
Testing location/procedure .....	CBTL <input checked="" type="checkbox"/> SMT <input type="checkbox"/> TMP <input type="checkbox"/>
Address .....	UL International Demko A/S, Lyskaer 8, 2730, Herlev, Denmark
Applicant's name .....	ADVANTECH CO LTD
Address .....	4TH FL 108-3 MING-CHUAN RD SHING-TIEN CITY TAIPEI HSIEN TAIWAN
<b>Test specification:</b>	
Standard .....	IEC60950, Third Edition (1999)
Test procedure .....	CB Scheme
Non-standard test method .....	N/A
Test Report Form No. ....	1950__F/00-03
TRF originator .....	FIMKO
Master TRF .....	dated 00-02
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Test item description .....	Industrial Computer
Trade Mark .....	ADVANTECH
	
Model/Type reference .....	MIC-3041xxxxxx where "x"=0-9, A-Z or blank.
Manufacturer .....	SAME AS APPLICANT
Rating .....	100 - 240 V ac, 60 - 50 Hz, 6 - 3 A

Issue Date: 2003-05-29  
Amendment 1 2003-08-18

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Report Reference #

E180881-A14-CB-1

Marking Plate - Refer to Enclosure titled Miscellaneous for copy.

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

Equipment mobility.....: stationary  
Operating condition.....: continuous  
Mains supply tolerance (% ).....: +10%, -10%  
Test for IT power systems.....: No  
IT testing, phase-phase voltage (V) .....: N/A  
Class of equipment .....: Class I (earthed)  
Mass of equipment (kg) .....: 16  
Protection against ingress of water.....: IP20

**Possible test case verdicts:**

- test case does not apply to the test object .....: N / A  
- test object does meet the requirement .....: P(Pass)  
- test object does not meet the requirement .....: F(Fail)

**General remarks:**

**This report is not valid as a CB Test Report unless signed by an approved CB Testing Laboratory and appended to a CB Test Certificate issued by a NCB in accordance with IEC 60335-1.**

The test results presented in this report relate only to the object tested.  
This report shall not be reproduced, except in full, without the written approval of the Issuing testing laboratory.

"(see Enclosure #)" refers to additional information appended to the report.  
"(see appended table)" refers to a table appended to the report.  
Throughout this report a point is used as the decimal separator.

**General Product Information:**

**Report Summary**

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No.7, 6th Street, Shang Di Zone, Haidian, District, Beijing, P.R. China.
- No tests were considered necessary.

**Product Description**

- Power Supply, motherboard and optional provided HDD, CD-ROM, FDD with CPU housed in metal enclosures.

**Model Differences**

N/A

**Additional Information**

N/A

**Engineering Consideration**

The product was submitted and tested for use at the manufacturer's recommended ambient temperature (T<sub>mra</sub>) of:

45 °C

The power supply means are

Detachable power cord, Pluggable A or B

The product is intended for use on the following systems

TN

The equipment disconnect device is considered to be

Appliance inlet

**Engineering Conditions of Acceptability**

When installed in an end-product, consideration must be given to the following:



Issue Date: 2003-05-29  
Amendment 1 2003-08-18

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Report Reference #

E180881-A14-CB-1

IEC 60950			
Clause	Requirement + Test	Result - Remark	Verdict

1.7.1	Manufacturer's name/Trademark .....	Advantech Co., Ltd. / ADVANTECH	Pass
	Type/model.....	MIC-3041xxxxxx where "x"=0- 9, A-Z or blank.	Pass