



1 **EC TYPE-EXAMINATION CERTIFICATE**

2 Equipment intended for use in Potentially Explosive Atmospheres Directive 94/9/EC

3 Certificate Number: Sira 05ATEX2310

4 Equipment: RAID2-xxxBx DECT Pocket Telephone Unit 9d24

5 Applicant: Ascom Tateco AB

6 Address: P O Box 8783
SE-402 76
Grimbodalen 2
Göteborg
Sweden

7 This equipment and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

8 Sira Certification Service, notified body number 0518 in accordance with Article 9 of Directive 94/9/EC of 23 March 1994, certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in confidential report numbers R52L11611A and R52L14164A.

9 Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the schedule to this certificate, has been assured by compliance with the following documents:

EN 50014:1997 plus amendments A1 and A2

EN 50020:2002

IEC 60529:2001

IEC 61241-0:2004 plus Corrigendum 1

IEC 61241-11:2005

10 If the sign 'X' is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the schedule to this certificate.

11 This EC type-examination certificate relates only to the design and construction of the specified equipment. If applicable, further requirements of this Directive apply to the manufacture and supply of this equipment.

12 The marking of the equipment shall include the following:



II 2G EEx ib IIC T4

II 3D Ex ibD 22 IP64 T50°C

Project Number 52L11611 and 52L14164
Date 28 April 2006
C. Index 15

C Ellaby
Certification Officer

This certificate and its schedules may only be reproduced in its entirety and without change.

Sira Certification Service

Rake Lane, Eccleston, Chester, CH4 9JN, England

Tel: +44 (0) 1244 670900

Fax: +44 (0) 1244 681330

Email: info@siracertification.com

Web: www.siracertification.com



SCHEDULE

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13 DESCRIPTION OF EQUIPMENT

The RAID2-xxxBx DECT Pocket Telephone Unit 9d24 is also marketed under the following names:

- Ascom Protector MkII
- Ascom Messenger MkII
- Ericsson DT432
- Ascom Aastra

The device is a battery-powered, hand-held, wireless device that communicates with a base station using ten frequencies from 1881.792 Hz to 1897.344 MHz at 1.728 MHz spacing. It comprises a single printed circuit board with a liquid crystal display mounted on it, these are housed in an ABS enclosure. Some versions have an alarm button. The device is powered from a single, Sanyo UF553436F, 750 mAh, lithium-ion cell, which may be recharged only when the unit is located in the non-hazardous area. During the charging operation, communication also occurs with base station. The maximum charging voltage (Um) is 5.25 V and the maximum charging current (Im) is 1.25 A.

There is an output to a suitably-certified headset; the safety description at this connector is:

- U_o = 4.2 V
- I_o = 350 mA
- P_o = 1.3 W
- C_o = 2.2 μF
- L_o = 2.4μH or L_o/R_o = 3.1 μH/Ω

14 DESCRIPTIVE DOCUMENTS

14.1	Drawing	Sheet	Rev.	Date	Description
	000208	1 to 6	C3	15 Mar 06	Schematic – main circuit
	010849	1 to 2	D	05 Apr 06	Artwork – main circuit PCB
	460490	1 of 1	A	05 Sep 05	Marking – front of unit, Ascom Protector MkII
	460491	1 of 1	A	05 Sep 05	Marking – front of unit, Ascom Messenger MkII
	460492	1 of 1	A	05 Sep 05	Marking – front of unit, Ericsson DT432
	460495	1 of 1	D	11 Apr 06	Marking – rear of unit
	460497	1 of 1	B	11 Apr 06	Marking – cell compartment (external)
	460501	1 of 1	A	24 Jan 06	Marking – front of unit, Aastra
	460502	1 of 1	A	07 Feb 06	Marking – cell compartment (internal)
	DV-BG4040094*	1 of 3	00	10 Feb 06	Artwork – cell PCB
	DOC000566	1 to 5	A3	16 Mar 06	Critical component list
	M62307	1 of 1	C0	15 Mar 06	Sanyo battery pack – general assembly
	M62464_3	1 of 1	B1+	26 Jan 06	Encapsulation detail
	M62873	1 of 1	D2	27 Jan 06	General assembly
	M62940	1 of 1	C6	29 Mar 06	Sanyo battery pack – insulation
	M62941	1 of 1	B0	28 Mar 06	Sanyo battery pack – insulation and connector strip
	SCH4040094	2 of 3	3.0	24 Jan 06	Schematic – cell PCB

* Pages 2 and 3 of this drawing were amended by Sira on 19 April 2006

14.2 Report numbers R52L11611A and R52L14164A

Date 28 April 2006

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15 **SPECIAL CONDITIONS FOR SAFE USE** (denoted by X after the certificate number)

None

16 **ESSENTIAL HEALTH AND SAFETY REQUIREMENTS OF ANNEX II** (EHSRs)

The relevant EHSRs that are not addressed by the standards listed in this certificate have been identified and individually assessed in report numbers R52L11611A and R52L14164A.

17 **CONDITIONS OF CERTIFICATION**

17.1 The use of this certificate is subject to the Regulations Applicable to Holders of Sira Certificates.

17.2 Holders of EC type-examination certificates are required to comply with the production control requirements defined in Article 8 of directive 94/9/EC.

Date 28 April 2006

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