



1 **TYPE EXAMINATION CERTIFICATE**

2 Equipment intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU

3 Certificate Number: **Sira 08ATEX4103X** Issue: **10**

4 Equipment: **Barracuda WS Ruggedised Industrial Computer with External Power Supply**

5 Applicant: **Azonix Corporation**

6 Address: 101 Billerica Avenue
Building 4
North Billerica
Massachusetts 01862
USA

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

8 CSA Group Netherlands B.V. certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design of Category 3 equipment intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in the confidential reports listed in Section 14.2.

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 60079-0:2009

EN 60079-15:2010

The following standard was used for reference:

EN 60079-11:2012

10 If the sign 'X' is placed after the certificate number, it indicates that the equipment is subject to Specific Conditions of Use identified in the schedule to this certificate.

11 This Type Examination Certificate relates only to the design of the specified equipment, and not to specific items of equipment subsequently manufactured. 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 3G

Ex nA IIC T3 Gc (Tamb -40°C to +50°C) – with heater

Ex nA IIC T3 Gc (Tamb 0°C to +50°C) – without heater

Project Number 2124

Signed: 

Title: Director of Operations

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SCHEDULE

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Issue 10

13 DESCRIPTION OF EQUIPMENT

The Barracuda WS is rugged, stand-alone 15" display/workstation that is designed for use in harsh industrial conditions. The IP56 chromium-finished aluminium alloy enclosure has a touch screen in the cover that is bonded to the enclosure for protection against hose-down cleaning or element weather conditions. The workstation version incorporates a single board computer. The display is passively enhanced for full sunlight viewability.

The Barracuda WS has two power supplies: the main supply is in a separate enclosure (external to main unit) and the heater power supply is installed inside the unit. Both supplies are 100-240 Vac, 50/60 Hz, 3 A maximum. The mains input goes into the external power supply enclosure and then branches to supply the main power supply in the same enclosure and the heater power supply in the main unit.

The Barracuda WS has the following user connections:

Connectors – Workstation			
Type	Description	Icon	Mating connectors (Amphenol)
Heater AC Input	3-pin plug shell		PTO6W-12-3SO23
Protective Earth Ground	14AWG - 2AWG wire terminal		--
DC Input	4-pin plug shell		PTO6W-12-4SO23
PS/2 Keyboard or Mouse Port	6-pin plug shell		PTO6W-10-6PO23
Serial Port	10-pin plug shell		PTO6W-12-10SO23
VGA Port	14-pin plug shell		PTO6W-12-14PO23
Ethernet Port	RJ45 jack		RJFTV6MN
USB Port	USB 4-pin type A		USBFTV6N
USB Port (optional)	USB 4-pin type A		USBFTV6N
Option Port	--	--	--

Variation 1 - This variation introduced the following changes:

- The addition of a power delay board.
- The resistive heaters were repositioned.

Variation 2 - This variation introduced the following changes:

- Following appropriate re-assessment to demonstrate compliance with the requirements of the later standards, the documents originally listed in section 9, EN 60079-0:2004 & IEC 60079-15:2005, were replaced by those currently listed, the markings in section 12 were updated accordingly.
- The minimum operating temperature of the version without the heater was raised from -20°C to 0°C at the request of the manufacturer.

Variation 3 - This variation introduced the following changes:

- The inclusion of the 'door down' option requiring mechanical changes to the enclosure was endorsed.
- The corrections of typographical errors relating to the standards and marking.

Variation 4 - This variation introduced the following changes:

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- i. The inclusion of the following:
 - An updated Ipx IP-4MTS5V single board computer (SBC).
 - A 12V ATX supply for the SBC.
 - An Optrex T-55534D150J-LW-ABN display as a replacement for the existing Sharp LQ150X1LGB1 display.
 - An updated LED driver board for the Optrex T-55534D150J-LW-ABN backlight.
- ii. Clarification of the current drawings.

Variation 5 - This variation introduced the following changes:

- i. An optional serial port (Azonix P/N T20-202910) was allowed to be fitted to the bottom of the enclosure, the two parts of the external connector are mechanically locking and are considered to be non-sparking.

Variation 6 - This variation introduced the following changes:

- i. The introduction of an iKey DT-5K Keyboard and associated connector, the assessment associated with this change refers to EN 60079-11:2012, therefore, this standard was added to section 9.
- ii. The Description of Equipment was modified by removing the list of sub-assemblies which are detailed in the supporting drawings.

Variation 7 - This variation introduced the following changes:

- i. The use of any one of the following Softing CANbus cards (CANpro USB, DUL-OO-012410, DUL-OO-012411, BUL-OO-011810) as an alternative to the Softing CANbus 2PCMCIA.

Variation 8 - This variation introduced the following changes:

- i. The introduction of a Touch International #51-F-PMC-150-002R1.0 capacitive touchscreen and associated touchscreen controller.

Variation 9 - This variation introduced the following changes:

- i. Introduction of the DiMoto DM-1001-1 or DM-1002-1 optical fibre media converter as an alternative to the Omnitron Systems Technology 4334-0.
- ii. The applicant's address was changed from 900 Middlesex Turnpike, Billerica, MA 01821, USA to that currently shown.

14 DESCRIPTIVE DOCUMENTS

14.1 Drawings

Refer to Certificate Annexe.

14.2 Associated Sira Reports and Certificate History

Issue	Date	Report no.	Comment
0	18 June 2008	R52A18037A	The release of prime certificate.
1	8 September 2008	R52A18807A	The introduction of Variation 1.
2	11 September 2010	R23137A/00	The introduction of Variation 2.
3	14 December 2010	R23869A/00	The introduction of Variation 3.
4	23 May 2011	R24155A/00	The introduction of Variation 4.

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Issue	Date	Report no.	Comment
5	16 December 2011	R25764A/00	The introduction of Variation 5.
6	14 June 2012	R27743A/00	The introduction of Variation 6.
7	25 March 2013	R28182A/00	The introduction of Variation 7.
8	25 April 2013	R30470A/00	The introduction of Variation 8.
9	30 April 2013	R30159A/00	The introduction of Variation 9.
10	31st October 2019	2124	<ul style="list-style-type: none">• Transfer of certificate Sira 08ATEX4103X from Sira Certification Service to CSA Group Netherlands B.V..• Type-Examination Certificate in accordance with 94/9/EC updated to Type-Examination Certificate in accordance with Directive 2014/34/EU. <i>(In accordance with Article 41 of Directive 2014/34/EU, Type-Examination Certificates referring to 94/9/EC that were in existence prior to the date of application of 2014/34/EU (20 April 2016) may be referenced as if they were issued in accordance with Directive 2014/34/EU. Variations to such Type-Examination Certificates may continue to bear the original certificate number issued prior to 20 April 2016.)</i>

15 SPECIAL CONDITIONS FOR SAFE USE

- 15.1 The Barracuda shall be installed in an area where there is a low risk of mechanical impact

16 ESSENTIAL HEALTH AND SAFETY REQUIREMENTS (EHSRs)

The relevant EHSRs that are not addressed by the standards listed in this certificate have been identified and individually assessed reports listed in Section 14.2.

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Certificate Annexe



Certificate Number: Sira 08ATEX4103X

Equipment: Barracuda WS Ruggedised Industrial Computer with External Power Supply

Applicant: Azonix Corporation

Issue 0

Number	Sheet	Rev.	Date	Description
E19-101640	1 to 2	A	18 Jun 08	ATEX Label Schedule (Certification marking E70-1002-0636X, rev F)
19-101610	1 to 3	0	23 Aug 07	Instruction, inverter potting, MP2100
BARR-GA	1 to 5	4	11 Jun 08	General assembly
E04954—0000	1 of 1	C	08 Jun 08	Warning label
E90-BARR-B010	1 of 1	D	25 Oct 07	Barracuda (Canrig) wiring diagram
IP-4MTS5V	1 to 25	1.0	07 Dec 06	Schematic – motherboard
mrd_barr_thrmst	1 of 1	B	26 Oct 07	Assy dwg. Barracuda thermistor
TMPI-1365	1 to 3	A	11 Jan 08	Cable tie instruction

Issue 1

Number	Sheet	Rev.	Date	Description
10-500401	1 of 1	A	09 Jul 08	Schematic – power delay board
BARR-GA	1 to 5	5	14 Jul 08	General assembly

Issue 2

Number	Sheet	Rev.	Date (Sira stamp)	Description
E70-1002-0630	1 of 1	H	24 Sep 10	ATEX Label Schedule (no heater)
E70-1002-0636	1 of 1	F	29 Sep 10	ATEX Label Schedule (with heater)

Issue 3

Number	Sheets	Rev.	Date (Sira stamp)	Description
BARR DOORS	1 of 1	1	06 Dec 10	Barracuda door comparison

Issue 4 (The following list has been compiled using the previously certified documents and details all the current drawings)

Number	Sheets	Rev.	Date (Sira stamp)	Description
10-500401	1 of 1	A	09 Jul 08	Schematic – power delay board
19-101610	1 to 3	0	23 Aug 07	Instruction, inverter potting, MP2100
BARR DOORS	1 of 1	1	06 Dec 10	Barracuda door comparison
E17-200330	1 to 5	E	10 May 11	General assembly
E04954—0000	1 of 1	C	08 Jun 08	Warning label
E70-1002-0630	1 of 1	H	24 Sep 10	ATEX Label Schedule (no heater)
E70-1002-0636	1 of 1	F	29 Sep 10	ATEX Label Schedule (with heater)
E90-BARR-B010	1 of 1	D	25 Oct 07	Barracuda (Canrig) wiring diagram
mrd_barr_thrmst	1 of 1	B	26 Oct 07	Assy dwg. Barracuda thermistor
TMPI-1365	1 to 3	A	11 Jan 08	Cable tie instruction

Issue 5

Number	Sheets	Rev.	Date (Sira stamp)	Title
E17-200330	1 to 9	F	07 Dec 11	General Assembly
T20-202910	1 of 1	1	07 Dec 11	Cable 10-Pin

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Applicant: Azonix Corporation

Issue 6

Number	Sheets	Rev.	Date (Sira stamp)	Title
DT-5K-63513-27443	1 to 4	2.0	07 Jun 12	iKey keyboard schematic
DT-5K-63513-27443	1 to 2	3	07 Jun 12	iKey keyboard BoM
E16-100494	1 of 1	B	07 Jun 12	iKey DT-5K keyboard additional ATEX marking
E17-200330	1 to 9	G	07 Jun 12	General Assembly
E19-101638	1 of 1	A	07 Jun 12	Re-work, iKey keyboard connector

Issue 7

Drawing no.	Sheets	Rev	Date (Sira stamp)	Title
E17-200330	1 to 9	J	28 Aug 12	General Assembly

Issue 8

Drawing no.	Sheets	Rev.	Date (Sira stamp)	Title
17-102508	1 to 2	A	18 Apr 13	Bezel insert
17-102509	1 of 1	A	18 Apr 13	Display bezel
60-200043	1 to 9	A	18 Apr 13	Touchscreen specification
E17-200330	1 to 10	L	19 Mar 13	General Assembly
P60-200025	1 of 1	B	19 Mar 13	Projected Capacitive

Issue 9

Drawing no.	Sheets	Rev.	Date (Sira stamp)	Title
E17-200330	1 to 11	M	19 Apr 13	General Assembly
E70-1002-0630	1 of 1	K	19 Apr 13	ATEX Label Schedule (no heater)
E70-1002-0636	1 of 1	I	19 Apr 13	ATEX Label Schedule (with heater)

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