1   EC TYPE-EXAMINATION CERTIFICATE

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

3   Certificate Number: **Sira 07ATEX2064X**   Issue: **4**

4   Equipment: **9400 Series Ethernet Modules**

5   Applicant: **Controlled Systems Limited**

6   Address: Ryder Close
Cadley Hill
Swadlincote
Derbyshire DE11 9EU
UK

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 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 60079-0:2006   IEC 60079-26:2006   IEC 61241-0:2004   EN 60079-28:2007
EN 60079-11:2007   EN 50303:2000   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:

9461 & 9466 Modules	**9465 Module**	**9469 Module**
I M1 II 1GD Ma Ex ia I Ga Ex ia IIC T4 Ex iaD 20 T135°C (Ta = -40°C to +70°C)	I M1 II 1GD Ma Ex ia I Ma Ex ia op is I Ga Ex ia IIC T4 Ga Ex ia op is IIC T4 Ex iaD 20 T135°C (Ta = -40°C to +70°C)	I M1 II 1GD Ma Ex ia I Ga Ex ia IIC T4 Ex iaD 20 T135°C (Ta = -40°C to +60°C)

Project Number   25385

D R Stubbings BA MIET
Certification Manager

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

Form 9400 Issue 1

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13 DESCRIPTION OF EQUIPMENT

The **9400 Series Ethernet Modules** are designed to extend an Ethernet network into a hazardous area and also to act as an interface between an Ethernet network and equipment having a wireless connection or a serial communication port.

The following 4 types of Modules are intended to be located in the hazardous area:

The **9461-ET Module** is configured as an Ethernet gateway to enable existing equipment having a serial communications port to be connected to an Ethernet network.

The **9465-ET Module** is configured as a 10/100 Mbps Fibre to Copper Media Converter to allow an Ethernet network to be extended over a greater distance. The fibre optic link may be up to 2 kilometres in length when running at 100 Mbps and, due to the use of 1300 nm optics, an extended distance of 5 kilometres is achievable at 10 Mbps. Longer distances may be obtained by connecting a **9466-ET** (10/100 Mbps Ethernet Switch) between two **9465-ET** media converters, effectively giving a 'repeater' function (This also provides 3 x UTP ports available for local network connectivity and is the 'typical' configuration encountered). The fibre optics of the **9465-ET Module** also permits 9400 Series Ethernet Modules in the non-hazardous area to communicate with other 9400 Series Ethernet Modules in the hazardous area and vice versa.

The **9466-ET Module** is configured as a 10/100 Mbps Ethernet Switch to allow the interconnection of the 9400 Series Ethernet Modules via its five, Ethernet connectors. The **9466-ET Module** also enables an Ethernet network to span a greater distance when used in conjunction with **9465-ET Module** media converters. This is achieved by the low latency 'store and forward' mechanism integral to the switch that only transmits 'good' packets of data and ensures that the stringent timing associated with Ethernet is maintained. Each connection of the **9466-ET Module** is effectively a 'point-to-point' network segment unlike the older generation hubs that were simple 'dumb' repeaters.

The **9469-ET Module** is configured as a wireless communication unit having a microwave output less than 500 mW. The aerial may be either omnidirectional or unidirectional depending upon application. The **9469-ET Module** also permits communication between a **9469-ET Module** in the non-hazardous area to communicate with a **9469-ET Modules** in the hazardous area.

The **9400 Series Ethernet Modules** comprise electronic components mounted on printed circuit boards all completely encapsulated within a plastic enclosure designed for mounting on a DIN rail. External electrical connections are made via screw type terminals and/or connectors mounted on the front of the enclosure.

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SCHEDULE

EC TYPE-EXAMINATION CERTIFICATE

Apparatus supply and Input/Output parameters

The **9461 Ethernet Gateway Module** has the following safety description:

(Supply input)
Terminals T1, T2 wrt T3, T4

U_i	=	15.4 V
C_i	=	0
L_i	=	0

(RS485/422 Port 3)
Terminals T6 wrt T10, T7 wrt T10, T8 wrt T10, T9 wrt T10

U_i	=	7.2 V
C_i	=	0
L_i	=	0
U_o	=	5.88 V
I_o	=	111 mA
P_o	=	163 mW
C_o	=	20 µF
L_o	=	3 mH

(RS485/422 Port 4)
Terminals T11 wrt T15, T12 wrt T15, T13 wrt T15, T14 wrt T15

U_i	=	7.2 V
C_i	=	0
L_i	=	0
U_o	=	5.88 V
I_o	=	111 mA
P_o	=	163 mW
C_o	=	20 µF
L_o	=	3 mH

(TTL/RS232 Port 1)
(Connector CON1)
Pin 9 wrt Pin 5

U_i	=	0
C_i	=	0
L_i	=	0
U_o	=	5.88 V
I_o	=	188 mA
P_o	=	276 mW
C_o	=	20 µF
L_o	=	2.26 mH

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Pin 3 wrt Pin 5, Pin 4 wrt Pin 5, Pin 7 wrt Pin 5

U_i	=	5.88 V
C_i	=	0
L_i	=	0
U_o	=	5.88 V
I_o	=	16 mA
P_o	=	24 mW
C_o	=	20 µF
L_o	=	138 mH

Pin2 wrt Pin 5, Pin 1 wrt Pin 5

U_i	=	12.5 V
C_i	=	0
L_i	=	0
U_o	=	3.15 V
I_o	=	3.4 mA
P_o	=	2.7 mW
C_o	=	50 µF
L_o	=	1.0 H

(TTL/RS232 Port 2)
(Connector CON2)
Pin 9 wrt Pin 5

U_i	=	0
C_i	=	0
L_i	=	0
U_o	=	5.88 V
I_o	=	188 mA
P_o	=	276 mW
C_o	=	20 µF
L_o	=	2.26 mH

Pin 3 wrt Pin 5, Pin 4 wrt Pin 5, Pin 7 wrt Pin 5

U_i	=	5.88 V
C_i	=	0
L_i	=	0
U_o	=	5.88 V
I_o	=	16 mA
P_o	=	24 mW
C_o	=	20 µF
L_o	=	138 mH

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Pin 2 wrt Pin 5, Pin 1 wrt Pin 5

U_i	=	12.5 V
C_i	=	0
L_i	=	0
U_o	=	3.15 V
I_o	=	3.4 mA
P_o	=	2.7 mW
C_o	=	50 µF
L_o	=	1.0 H

**RJ45 Connector
(10/100 Base T)**

U_o	=	0
I_o	=	0
P_o	=	0
C_i	=	0.075µF
L_i	=	0
U_i	=	15.4 V Maximum (PoEx)

The **9465 10/100 Media Converter Module** has the following safety description:

**(Supply input)
Terminals T1, T2 wrt T3, T4**

U_i	=	15.4 V
C_i	=	0
L_i	=	0

**Fibre-optic transmitter
(HFBR1312 or AFBR-5803AZ or AFCT-5179CZ)**

P_o	=	5 mW maximum Optical

**RJ45 Connector
(10/100 Base T)**

U_o	=	0
I_o	=	0
P_o	=	0
C_i	=	0.075µF
L_i	=	0
U_i	=	15.4 V Maximum (PoEx)

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The **9466 10/100 5 Port Switch Module** has the following safety description:

(Supply input)
Terminals T1, T2 wrt T3, T4

U_i	=	15.4 V
C_i	=	0
L_i	=	0

(PoEx Supply inputs)
Terminals T6 wrt T7, T8 wrt T9, T10 wrt T11, T12 wrt T13, T14 wrt T15

U_i	=	15.4 V
C_i	=	0.075 µF
L_i	=	0

mini DIN 8-way connector
(Connector CON1)
(Management Port)
Pin 5 wrt Pins 4 and 8

U_i	=	12.5 V
C_i	=	0
L_i	=	0
U_o	=	3.15 V
I_o	=	3.4 mA
P_o	=	2.7 mW
C_o	=	50 µF
L_o	=	1.0 H

Pins 1, 3 and 4 wrt Pins 5 and 6

U_i	=	0
C_i	=	0
L_i	=	0
U_o	=	5.88 V
I_o	=	48 mA
P_o	=	72 mW
C_o	=	20 µF
L_o	=	15 mH

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**RJ45 Connector A
(10/100 Base T)**

U_o	=	0
I_o	=	0
P_o	=	0
C_i	=	0.075µF
L_i	=	0
U_i	=	0 (PoEx)
U_o	=	Refer to the certified parameters of the intrinsically safe power supply connected to Terminals T6 wrt T7 for the PoEx output parameters
I_o	=	Refer to the certified parameters of the intrinsically safe power supply connected to Terminals T6 wrt T7 for the PoEx output parameters
P_o	=	Refer to the certified parameters of the intrinsically safe power supply connected to Terminals T6 wrt T7 for the PoEx output parameters
C_o	=	Refer to the certified parameters of the intrinsically safe power supply connected to Terminals T6 wrt T7 for the PoEx output parameters
L_o	=	Refer to the certified parameters of the intrinsically safe power supply connected to Terminals T6 wrt T7 for the PoEx output parameters
L_o/R_o	=	Refer to the certified parameters of the intrinsically safe power supply connected to Terminals T6 wrt T7 for the PoEx output parameters

**RJ45 Connector B
(10/100 Base T)**

U_o	=	0
I_o	=	0
P_o	=	0
C_i	=	0.075µF
L_i	=	0
U_i	=	0 (PoEx)
U_o	=	Refer to the certified parameters of the intrinsically safe power supply connected to Terminals T8 wrt T9 for the PoEx output parameters
I_o	=	Refer to the certified parameters of the intrinsically safe power supply connected to Terminals T8 wrt T9 for the PoEx output parameters
P_o	=	Refer to the certified parameters of the intrinsically safe power supply connected to Terminals T8 wrt T9 for the PoEx output parameters
C_o	=	Refer to the certified parameters of the intrinsically safe power supply connected to Terminals T8 wrt T9 for the PoEx output parameters
L_o	=	Refer to the certified parameters of the intrinsically safe power supply connected to Terminals T8 wrt T9 for the PoEx output parameters
L_o/R_o	=	Refer to the certified parameters of the intrinsically safe power supply connected to Terminals T8 wrt T9 for the PoEx output parameters

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RJ45 Connector C
(10/100 Base T)

U_o	=	0
I_o	=	0
P_o	=	0
C_i	=	0.075µF
L_i	=	0
U_i	=	0 (PoEx)
U_o	=	Refer to the certified parameters of the intrinsically safe power supply connected to Terminals T10 wrt T11 for the PoEx output parameters
I_o	=	Refer to the certified parameters of the intrinsically safe power supply connected to Terminals T10 wrt T11 for the PoEx output parameters
P_o	=	Refer to the certified parameters of the intrinsically safe power supply connected to Terminals T10 wrt T11 for the PoEx output parameters
C_o	=	Refer to the certified parameters of the intrinsically safe power supply connected to Terminals T10 wrt T11 for the PoEx output parameters
L_o	=	Refer to the certified parameters of the intrinsically safe power supply connected to Terminals T10 wrt T11 for the PoEx output parameters
L_o/R_o	=	Refer to the certified parameters of the intrinsically safe power supply connected to Terminals T10 wrt T11 for the PoEx output parameters

RJ45 Connector D
(10/100 Base T)

U_o	=	0
I_o	=	0
P_o	=	0
C_i	=	0.075µF
L_i	=	0
U_i	=	0 (PoEx)
U_o	=	Refer to the certified parameters of the intrinsically safe power supply connected to Terminals T12 wrt T13 for the PoEx output parameters
I_o	=	Refer to the certified parameters of the intrinsically safe power supply connected to Terminals T12 wrt T13 for the PoEx output parameters
P_o	=	Refer to the certified parameters of the intrinsically safe power supply connected to Terminals T12 wrt T13 for the PoEx output parameters
C_o	=	Refer to the certified parameters of the intrinsically safe power supply connected to Terminals T12 wrt T13 for the PoEx output parameters
L_o	=	Refer to the certified parameters of the intrinsically safe power supply connected to Terminals T12 wrt T13 for the PoEx output parameters
L_o/R_o	=	Refer to the certified parameters of the intrinsically safe power supply connected to Terminals T12 wrt T13 for the PoEx output parameters

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RJ45 Connector E
(10/100 Base T)

U_o	=	0
I_o	=	0
P_o	=	0
C_i	=	0.075μF
L_i	=	0
U_i	=	0 (PoEx)
U_o	=	Refer to the certified parameters of the intrinsically safe power supply connected to Terminals T14 wrt T15 for the PoEx output parameters
I_o	=	Refer to the certified parameters of the intrinsically safe power supply connected to Terminals T14 wrt T15 for the PoEx output parameters
P_o	=	Refer to the certified parameters of the intrinsically safe power supply connected to Terminals T14 wrt T15 for the PoEx output parameters
C_o	=	Refer to the certified parameters of the intrinsically safe power supply connected to Terminals T14 wrt T15 for the PoEx output parameters
L_o	=	Refer to the certified parameters of the intrinsically safe power supply connected to Terminals T14 wrt T15 for the PoEx output parameters
L_o/R_o	=	Refer to the certified parameters of the intrinsically safe power supply connected to Terminals T14 wrt T15 for the PoEx output parameters

The **9469 WLAN AP/Bridge Module** has the following safety description:

(Supply input)
Terminals T1, T2 wrt T3, T4

U_i	=	12.8 V
C_i	=	0
L_i	=	0

Antenna "A" **Antenna "B"**
TNC Connector **TNC Connector**

P_o = 500 mW maximum RF P_o = 500 mW maximum RF
NOTE: The type and length of the antenna cable and the antenna are classified as simple apparatus, and are not required to be specified by this certificate.

RJ45 Connector
(10/100 Base T)

U_o	=	0
I_o	=	0
P_o	=	0
C_i	=	0.075μF
L_i	=	0
U_i	=	12.8 V Maximum (PoEx)

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Variation 1 - This variation introduced the following changes:

i.   The type 9465-ET Ethernet Module was modified to allow the use of an extended range of fibre optic transmitter and transmitter/receiver devices.

ii.   The optical output associated with the type 9465-ET Ethernet Module was assessed against the 'op is' requirements of EN 60079-28:2007 and its marking was modified to show information that is required by this standard.

Variation 2 - This variation introduced the following changes:

i.   The replacement of the existing TNC antenna connectors with the smaller SMA connectors was allowed. Versions with this new connector will now be designated as a 9469-ET$_{PLUS}$ or 9469-ET+, the + sign signifying the enhance model.

ii.   The blocking capacitors C13 to C16 were approved to be replaced from the existing 10nF capacitors with 100pF capacitors.

iii. The introduction of minor changes not affecting the intrinsic safety assessment, these include changing the type of diode used for D1 & D2 and removing component FB3.

iv.   PCB layout changes to cover the component changes above were endorsed.

v.   The introduction of a note clarifying the situation of the antennae was inserted on page 9 of this issue.

14   **DESCRIPTIVE DOCUMENTS**

14.1 **Drawings**

      Refer to Certificate Annexe.

14.2 **Associated Sira Reports and Certificate History**

Issue	Date	Report no.	Comment
0	16 August 2007	R52L14824C	The release of the prime certificate.
1	8 January 2008	R52L14824E	Report number R52L14824C was replaced by 52L14824E.
2	20 August 2009	R52L19919A	The introduction of Variation 1.
3	26 October 2009	R52L19919B	Report number R52L19919B replaced R52L19919A.
4	26 July 2011	R25385A/00	The introduction of Variation 2.

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

15.1 When used with Group I gases, the Modules shall each be mounted within an enclosure providing a degree of protection of at least IP54, in accordance with EN 60529, and in a manner that does not impair the existing creepage and clearance distances. The enclosure shall also comply with the requirements of Clauses 7 and 8 of EN 60079-0:2006.

15.2 The connectors do not meet the ingress protection rating of IP20, therefore, this shall be taken into consideration during the installation of the 9400 Series Ethernet Modules when used with Group II gases, and each module shall be provided with an enclosure that is commensurate with the environment into which it is installed.

15.3 The supply to the modules must be derived from a suitably certified, intrinsically safe supply.

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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 the reports listed in Section 14.2.

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.

17.3   The products covered by this certificate incorporate previously certified devices, it is therefore the responsibility of the manufacturer to continually monitor the status of the certification associated with these devices, and the manufacturer shall inform Sira of any modifications of the devices that may impinge upon the explosion safety design of their products.

17.4   Assembly DB1 shall be constructed from 2 zener diodes type 1N5339B connected in parallel.

17.5   The manufacturer shall only use the following optical transmitters or combined transmitters/receivers with the type 9465-ET Ethernet Module, these devices are fitted on the media convertor board for the component with designation FO3:

Permitted device types	Device description
Agilent or Avago Technologies HFBR-14x2xx Agilent or Avago Technologies HFBR-14x4xx	Fibre optic transmitter
Agilent or Avago Technologies HFBR-1312T Agilent or Avago Technologies HFBR-1312TZ	Fibre optic transmitter and receiver
Agilent or Avago Technologies AFBR-5803Z Agilent or Avago Technologies AFBR-5803AZ Agilent or Avago Technologies AFBR-5803TZ Agilent or Avago Technologies AFBR-5803ATZ	Fibre optic transmitter and receiver
Agilent or Avago Technologies AFCT-5179xZ	Fibre optic transmitter and receiver

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Certificate Annexe

Certificate Number: Sira 07ATEX2064X

Equipment: 9400 Series Ethernet Modules

Applicant: Controlled Systems Limited

Issues 0 to 3 - The drawings associated with this Issue were replaced by those listed in Issue 1.

Issue 1

Number	Sheet	Rev.	Date (yyyy/mm/dd)	Description
9400Haz-ATEX Label	1 of 1	2	2007/12/10	Label Details, 9400 Series Ethernet
CSL-ZENER	1 of 1	3	2003/01/28	Zener diode assembly
13003-PCB	1 of 1	Orig.	2002/08/23	Zener PCB
9461-ASSY	1 of 1	1	2007/03/14	General Assembly, Ethernet Gateway
9461-PSU	1 of 1	2	2007/12/11	Circuit Diagram, Ethernet Gateway PSU Board
9461-CPU	1 of 1	3	2007/12/11	Circuit Diagram, Ethernet Gateway CPU Board
9461-PSU PCB	1 of 1	2	2007/03/23	Ethernet Gateway PSU Board Artworks
9461-CPU PCB	1 to 2	3	2007/08/08	Ethernet Gateway CPU Board Artworks
9465-ASSY	1 of 1	1	2007/03/14	General Assembly, Ethernet 10/100 Media Converter
9465-PSU	1 of 1	2	2006/11/22	Circuit Diagram, Ethernet 10/100 Media Converter PSU Board
9465-FO	1 of 1	3	2007/12/11	Circuit Diagram, Ethernet 10/100 Media Converter Main Board
9465-OPTIC	1 of 1	1	2006/02/16	Circuit Diagram, Ethernet 10/100 Media Converter Optic Board
9465-PSU PCB	1 of 1	2	2007/03/23	Ethernet 10/100 Media Converter PSU Board Artworks
9465-FO PCB	1 of 1	3	2007/08/08	Ethernet 10/100 Media Converter FO Board Artworks
9465-OPTIC PCB	1 of 1	1	2007/03/23	Ethernet 10/100 Media Converter OPTIC Board Artworks
9466-ASSY	1 of 1	2	2007/12/10	General Assembly, Ethernet 10/100 5 Port Switch
9466-PSU	1 of 1	2	2006/11/24	Circuit Diagram, Ethernet 10/100 5 Port Switch PSU Board
9466-SW	1 of 1	4	2007/12/11	Circuit Diagram, Ethernet 10/100 5 Port Switch SW Board
9466-LED	1 of 1	3	2007/12/11	Circuit Diagram, Ethernet 10/100 5 Port Switch LED Board
9466-FLEX	1 of 1	1	2007/10/24	Circuit Diagram, Ethernet 10/100 5 Port Switch SW Flex Connector
9466-PSU PCB	1 of 1	2	2007/03/29	Ethernet 10/100 5 Port Switch PSU Board Artworks
9466-SW PCB	1 to 2	4	2007/10/04	Ethernet 10/100 5 Port Switch SW Board Artworks
9466-LED PCB	1 of 1	3	2007/10/24	Ethernet 10/100 5 Port Switch LED Board Artworks
9466-FLEX PCB	1 of 1	1	2007/10/24	Ethernet 10/100 5 Port Switch FLEX Connector Artworks
9469-ASSY	1 of 1	1	2007/03/14	General Assembly, Ethernet WLAN A/P Bridge
9469-PSU	1 of 1	2	2007/12/11	Circuit Diagram, Ethernet WLAN A/P Bridge PSU Board
9469-WL	1 of 1	3	2007/12/11	Circuit Diagram, Ethernet WLAN A/P Bridge Main Board
9469-PSU PCB	1 of 1	2	2007/03/23	Ethernet WLAN A/P Bridge PSU Board Artworks
9469-WL PCB	1 of 1	3	2007/08/08	Ethernet WLAN A/P Bridge WL Board Artworks

Issue 2

Number	Sheet	Rev.	Date (yyyy/mm/dd)	Description
9400Haz-ATEX Label	1 of 1	3	2009/08/07	9400 Ethernet (Haz) ATEX Certification Label Drawing

Issue 3 (No new drawings were introduced.)

Issue 4

Number	Sheets	Rev.	Date (yyyy/mm/dd)	Description
9469-WL	1 of 1	4	2011/06/14	WLAN AP/Bridge Main Board Circuit Diagram
9469-WL PCB	1 of 1	4	2011/07/05	WLAN AP/Bridge Main Board Artwork
9400Haz-ATEX Label	1 of 1	4	2011/07/06	9400 Ethernet (Haz) ATEX Certification Label Drawing

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