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## Type Approval Certificate Extension

This is to certify that Certificate No. 09/10039 for the undernoted products is extended and renumbered as shown.

This certificate is issued to:

<b>PRODUCER</b>	Kawai Electronic Innovation System Co. Ltd.
<b>PLACE OF PRODUCTION</b>	1-5, 1-chome, Ikunonishi, Ikuno-ku, Osaka, 544-0024, Japan
<b>DESCRIPTION</b>	Ethernet Hub
<b>TYPE</b>	KEI-EHUB Series Comprising:- KEI-EHUB8P01 : 8 Port, AC 100V, 50/60 Hz, 6.6W KEI-EHUB8P02 : 8 Port, AC 100V, 50/60 Hz, 4.8W KEI-EHUB5A01 : 5 Port, DC 24V, 2.4W KEI-EHUB5A02 : 5 Port, DC 24V, 3.0W KEI-EHUB8A02 : 8 Port, DC 24V, 5.0W KEI-EHUB5M01 : 5 Port, DC 24V, 6.0W KEI-EHUB8M01 : 8 Port, DC 24V, 6.0W
<b>APPLICATION</b>	Marine and offshore applications for use in environmental categories ENV3 as defined in LR Type Approval System Test Specification No. 1-2002 where the Test Specification is satisfactory for the intended operation.
<b>DESIGN CODE</b>	Manufacturer's Specification No. LR-EHUB01-502

Certificate No.	09/10039(E1)
Issue Date	29 May 2014
Expiry Date	28 May 2019
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**RATINGS**

Type	KEI-EHUB8P01	KEI-EHUB8P02	KEI-EHUB5A01
Port	8	8	5
Transmission Speed	10/100M bps	10/100M bps	10/100M bps
Transmission Standards	IEEE 802.3 : 10 BASE-T, IEEE 802.3u : 100 BASE-TX, IEEE 802.3x : Flow Control	IEEE 802.3 : 10 BASE-T, IEEE 802.3u : 100 BASE-TX, IEEE 802.3x : Flow Control	IEEE 802.3 : 10 BASE-T, IEEE 802.3u : 100 BASE-TX
Transmission Distance	Max. 100 m	Max. 100 m	Max. 100 m
Managing	Unmanaged(switching)	Unmanaged(switching)	Unmanaged(switching)
LED Indication	Power on x 1, Link/Act x 8	Power on x 1, Link/Act x 8	Power on x 1, Link/Speed x 5
Power	AC 100V, 50/60 Hz	AC 100V, 50/60 Hz	DC +24V
Power Consumption	6.6 W	4.2 W	2.4 W
Mounting (with attachment plate)	Desk mount, Wall mount	Desk mount, Wall mount	DIN Rail mount, Desk mount, Wall mount

Type	KEI-EHUB5A02	KEI-EHUB8A02
Port	5	8
Transmission Speed	10/100M bps	10/100M bps
Transmission Standards	IEEE 802.3 : 10 BASE-T, IEEE 802.3u : 100 BASE-TX	IEEE 802.3 : 10 BASE-T, IEEE 802.3u : 100 BASE-TX
Transmission Distance	Max. 100 m	Max. 100 m
Managing	Unmanaged(switching)	Unmanaged(switching)
LED Indication	P1 x 1, P2 x 1, P-Fail x 1, Link/Active x5, Duplex / Collision x 5	P1 x 1, P2 x 1, P-Fail x 1, Link/Active x5, Duplex / Collision x 5
Power	DC +24V	DC +24V
Power Consumption	3.0 W	4.8 W
Mounting (with attachment plate)	DIN Rail mount, Desk mount, Wall mount	DIN Rail mount, Desk mount, Wall mount

Type	KEI-EHUB5M01	KEI-EHUB8M01
Port	5	8
Transmission Speed	10/100M bps	10/100M bps
Transmission Standards	IEEE 802.3 : 10 BASE-T, IEEE 802.3u : 100 BASE-TX, IEEE 802.3x : Flow Control	IEEE 802.3 : 10 BASE-T, IEEE 802.3u : 100 BASE-TX, IEEE 802.3x : Flow Control
Transmission Distance	Max. 100 m	Max. 100 m
Managing	Unmanaged(switching)	Unmanaged(switching)
LED Indication	PWR1 x 1, PWR2 x 2, Fault x 1, 10M x 5, 100M x5	PWR1 x 1, PWR2 x 2, Fault x 1, 10M x 8, 100M x 8
Power	DC +24V	DC +24V
Power Consumption	6.0 W	6.0 W
Mounting (with attachment plate)	DIN Rail mount, Desk mount, Wall mount	DIN Rail mount, Desk mount, Wall mount

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*"This Certificate is not valid for equipment, the design, ratings or operating parameters of which have been varied from the specimen tested. The manufacturer should notify Lloyd's Register Group Limited of any modification or changes to the equipment in order to obtain a valid certificate."*

*The attached Design Appraisal Document No. 09/10039(E1) and its supplementary Type Approval Terms and Conditions form part of this Certificate.*

All other details remain as the previous Certificate No. 09/10039 to which this extension should be attached.

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