


Type Approval Certificate

This is to certify that the undernoted product(s) has/have been tested with satisfactory results in accordance with the relevant requirements of the LR Type Approval System.

This certificate is issued to:

PRODUCER	Phoenix Contact GmbH & Co. KG Flachsmarktstraße 8 32825 Blomberg
PLACE OF PRODUCTION	4F-7, No.79, Sec.1 Hsin-Tai-Wu Road, Hsi-Chih Taipei 221, Taiwan
DESCRIPTION	Unmanaged ETHERNET Switches with 10/100 Base-TX Ports and 100 Base-FX Ports
TYPE	FL Switch SFNT 5TX Unmanaged ETHERNET Switch with five 10/100 Base-TX Ports (RJ45) FL Switch SFNT 4TX/FX Unmanaged ETHERNET Switch with four 10/100 Base-TX Ports (RJ45) and one 100 Base-FX Port (SC duplex, Multimode) FL Switch SFNT 8TX Unmanaged ETHERNET Switch with eight 10/100 Base-TX Ports (RJ45) FL Switch SFNT 7TX/FX Unmanaged ETHERNET Switch with seven 10/100 Base-TX Ports (RJ45) and one 100 Base-FX Port (SC duplex, Multimode) FL Switch SFNT 7TX/FX-ST Unmanaged ETHERNET Switch with seven 10/100 Base-TX Ports (RJ45) and one 100 Base-FX Port (ST, Multimode)
Certificate No.	10/20002
Issue Date	06 January 2010
Expiry Date	05 January 2015
Sheet	1 of 2


Dietmar Bondzio
Hamburg Plan Approval Centre
Lloyd's Register EMEA

Lloyd's Register EMEA
71 Fenchurch Street, London EC3M 4BS

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APPLICATION	Marine applications for use in environmental categories ENV 1, ENV 2 and ENV 3 (bridge and deck zone) as defined in Lloyd's Registers Type Approval System, Test Specification Number 1 - 2002.
ADDITIONAL TESTS	Low Temperature Test (-25°C / 16h)
STANDARD	IEEE Std. 802.3
OTHER CONDITIONS	The operating temperature of -40°C ~ 75°C as stated in the technical documentation of the manufacturer was not supported by documentary evidence.

"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 EMEA of any modification or changes to the equipment in order to obtain a valid certificate."

The Design Appraisal Document No. 22380-10 and its supplementary Type Approval Terms and Conditions form part of this Certificate.

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