# CERTIFICATE

Certificate Id: 2PAA104590_N-TRON 708FX2

| | |
|---|---|
| Category: | Managed Industrial Ethernet Switch |
| Product Name: | N-TRON 708FX2 |
| Software Version: | 1.1.12 |
| Hardware Version: | - |
| Vendor: | Red Lion Controls |
| | 3101 International Drive, Building 6 |
| | Mobile, Alabama 36606, USA |
| | |
| Certification Test Report: | 3BSE057434 |
| Certification reference: | System 800xA Version 3.x, 4.x, 5.x |
| Restrictions: | - |

The certificate states that the product specified above has passed the test towards the specified integration category. The certification has been performed by an official certification center, approved by the official steering body for the Industrial IT Certification.

The basis for the certificate is documented according to the Industrial IT Certification – Document Number 3BSE037356. The certificate is valid for the above mentioned Product versions until the next major release of the certified product or the certification reference system with a major release of the certified product or the reference system, a new certification is required to keep the certificate current.

ABB AB
721 59 Vasteras, Sweden

Date: 2017-04-03

Representative for the official steering body for the Industrial IT Certification

Björn Jonsson

**Managed Switch**

- Auto sensing 10/100Base-TX connections and 100Base FX connections
- N-Ring™ Technology with -30ms Healing, STP/RSTP (IEEE802.1W/D-2004) for Ethernet redundancy.
- QoS, IGMP Snooping, VLAN
- Full SNMP and Web browser management
- Alarm Contact and Status LED can be configured to respond to power failure on power input 1 or input 2.

Certification results and product details are summarized below:

| Product Overview | |
|---|---|
| **Fast Ethernet** | Six 10/100BaseTX ports, two Multimode 100BaseFX fiber optic ports |
| **Gigabit Ethernet** | No |
| **Compact Flash Interface** | No |
| **Console** | EIA-232 (com) |
| **System LED Indicator** | PWR/Status LED and two LED indicators per port |
| **Alarm Contact** | One alarm contact (normally open), capacity of 1A, 24 VDC |
| **Digital Inputs** | No |
| **Input Voltage** | Redundant input voltage 10-30 VDC |
| **Operating Temperature** | -40°C to 85°C |
| **Connection** | Removable 6-pin terminal block |
| **Power Consumption** | 330mA @ 24 VDC |
| **Casing** | Hardened steel DIN-Rail enclosure |
| **Installation** | DIN-Rail |

| Product Details in tested sample | |
|---|---|
| **Fast Ethernet** | Yes |
| **Gigabit Ethernet** | No |
| **Afw-file** | Yes |
| **Models included in test** | N-TRON 708FX2 |

| Engineering | |
|---|---|
| **Configuration and installation** | Web server of terminal interface |

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**N-TRON**
THE INDUSTRIAL NETWORK COMPANY

**Designed for Industrial Applications**
Managed Switch with Six 10/00BaseTX (RJ45) Ports, two Multimode 100BaseFX Fiber Optic Ports (SC or ST connectors), detailed Ring map and Fault Location Charting, Full SNMP, Web Management and N-View provide all the tools necessary to simplify configuration and diagnostics.

The N-TRON 708FX2 switch closely supports the 800xA Extended Automation System Value Propositions as noted below:

| 800xA Value Proposition Mapping |
| --- |

| ✓ | **Reducing Time to Decision and Action** |
|---|---|
| | - Detailed performance information can be retrieved from the management interface |
| | |

| ✓ | **Engineering for Maximum Performance** |
|---|---|
| | - High level configuration via management modules |
| | |

| ✓ | **Reducing Risk through High Integrity Automation** |
|---|---|
| | - Adapted for Industrial Ethernet |
| | - Mechanical form factor improves lifetime |

| ✓ | **Integrating Information for Improved Visibility** |
|---|---|
| | - Diagnostic information available via web interface |
| | - Auxiliary contact for independent error reporting |

| ✓ | **Investment Enhancement through Evolution** |
|---|---|
| | - Continuation in product development |
| | |

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