



## Product: [NSM-A](#)

XTran Node Support Module with 2x output contacts, 2x input contacts to TXCare and 2x PoE power inputs

### Product Description

The NSM-A (Node Support Module) is required in each XTran node and offers via its front panel functionalities like: status indication of PSU(s) and CSM(s), status and connection of digital I/O, status and connection of PoE power inputs (redundant) and a manual switch over of the active CSM via a hidden push button. The node number can be set via rotary DIP switches on the board. The NSM only communicates with the active CSM within its node, does not use XTran bandwidth, can be replaced and is hot-swappable.

### Technical Specifications

#### Product Overview

|                         |                            |
|-------------------------|----------------------------|
| Part Number:            | S30924-Q100-X101           |
| Port Type and Quantity: | 2x RJ-45 for DI/DO; 2x PoE |

#### More Interfaces

|                 |                                                                                             |
|-----------------|---------------------------------------------------------------------------------------------|
| Digital Input:  | Two digital inputs (=DI), to detect an open or closed potential free contact.               |
| Digital Output: | Two digital normally closed (NC) output contacts. Max. Current: 1A DC; Max. Voltage: 60 VDC |

#### Power requirements

|                    |                                     |
|--------------------|-------------------------------------|
| Operating Voltage: | +12V                                |
| Power consumption: | 3W                                  |
| Miscellaneous:     | Yes: 802.3af (PoE) & 802.3at (PoE+) |

#### Ambient conditions

|                                         |                                                                                                                                                               |
|-----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| MTBF (Telcordia SR-332 Issue 4) @ 25°C: | 786 Years                                                                                                                                                     |
| Operating Temperature Range:            | With XT-1104-A, XT-2206-A, XT-2209-A, XT-2210-A (aggregation nodes): -30° to +65°C (-22° to 149°F); With XT-2215-A (core nodes): -20° to +55°C (-4° to 131°F) |
| Storage Temperature Range:              | -30° to +75°C (-22° to 167°F)                                                                                                                                 |
| Relative humidity (non-condensing):     | 0-95 %                                                                                                                                                        |

#### Mechanical construction

|                 |          |
|-----------------|----------|
| Overall Width:  | 20.32 mm |
| Overall Height: | 126 mm   |
| Depth:          | 195 mm   |
| Weight:         | 0.21 kg  |

#### Approvals

|                                         |                                                                                                                                                                                                         |
|-----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Basis Standard:                         | CE, EN 55032:2015 + A11:2020, EN IEC 61000-3-2:2019, EN 61000-3-3:2013 + A2 :2021, EN 55035:2017 + A11:2020, EN IEC 61000-6-1:2019, EN IEC 61000-6-2:2019, EN IEC 61000-6-3:2021, EN IEC 61000-6-4:2019 |
| Safety of industrial control equipment: | EN 62368-1:2014                                                                                                                                                                                         |
| Power Utility:                          | EN 61000-6-5:2015, EN 61850-3:2014 (§6.7), IEEE 1613-2009 (§4), IEEE1613-2013 (clause 5,7,8,9,10)                                                                                                       |
| Transportation:                         | EN 50121-4:2016 + A1:2019                                                                                                                                                                               |

#### Reliability

|            |                                      |
|------------|--------------------------------------|
| Guarantee: | Standard 1 year (extension possible) |
|------------|--------------------------------------|

#### Further Instructions

|                        |                                            |
|------------------------|--------------------------------------------|
| Product Documentation: | Available via Belden Solutions Portal site |
| Certificates:          | Available via Belden Solutions Portal site |
| Software Download:     | Available via Belden Solutions Portal site |

History

|                      |                                                 |
|----------------------|-------------------------------------------------|
| Update and Revision: | Revision Number: 0.21 Revision Date: 11-14-2025 |
|----------------------|-------------------------------------------------|

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