Network Interfaces with Built-in I/O

The PROFIBUS and DeviceNet Network Interfaces are also available with built-in I/O to reduce cost and footprint. The network interfaces can be expanded and support all of the RSTi I/O types.

	STXDNC732	STXDNS824	STXDNS924
Product Name	**Slave Network Interface with 16 Negative Logic Inputs and 16 Source Outputs**	**Slave Network Interface with 16 Positive Logic Inputs and 16 Relay Outputs**	**Slave Network Interface with 16 Negative Logic Inputs and 16 Relay Outputs**
Lifecycle Status	Active	Active	Active
Module Type	Slave Network Interface	Slave Network Interface	Slave Network Interface
Field Busses/Device Networks	DeviceNet	DeviceNet	DeviceNet
Protocol Supported	I/O Slave Message (Group 2 only slave), Poll command. Bit_strobe command, Cyclic command, COS command	I/O Slave Message (Group 2 only slave), Poll command. Bit_strobe command, Cyclic command, COS command	I/O Slave Message (Group 2 only slave), Poll command. Bit_strobe command, Cyclic command, COS command
Features			
Baud Rate	125K bits/s, 250Kbps, 500Kbps (Auto baud rate selection)	125K bits/s, 250Kbps, 500Kbps (Auto baud rate selection)	125K bits/s, 250Kbps, 500Kbps (Auto baud rate selection)
I/O Data Size	Total: Inputs 4 bytes/Outputs 4 bytes	Total: Inputs 36 bytes/Outputs 34 bytes total (4 bytes In/ 4 bytes Out for base module and 32 bytes In/30 bytes Out for expansion modules)	Total: Inputs 36 bytes/Outputs 34 bytes total (4 bytes In/ 4 bytes Out for base module and 32 bytes In/30 bytes Out for expansion modules)
LEDs	Module Status, Network Status, I/O Status	Module Status, Network Status, I/O Status	Module Status, Network Status, I/O Status
Diagnostic Supported	Yes	Yes	Yes
Maximum Bus Length	Up to 500 meters depending on baud rate	Up to 500 meters depending on baud rate	Up to 500 meters depending on baud rate
Maximum Number of Nodes Supported	64	64	64
Number of Expansion I/O Supported	None Supported	10	10
Number of Points	16 In/ 16 Out	16 In/ 16 Out	16 In/ 16 Out
System Power Requirement	24 VDC (11 VDC to 28.8 VDC) with Current Limit, Reverse Polarity Protection	24 VDC (19.2 to 28.8 VDC) with Current Limit, Reverse Polarity Protection	24 VDC (19.2 to 28.8 VDC) with Current Limit, Reverse Polarity Protection
Field Power Requirement	24 VDC (11 VDC to 28.8 VDC)	24 VDC (11 VDC to 28.8 VDC)	24 VDC (11 VDC to 28.8 VDC)
Input Type	16 Point 24 VDC Negative Logic	16 Point 24 VDC Positive Logic	16 Point 24 VDC Negative Logic
Input Voltage Range	24 VDC (11 VDC to 28.8 VDC)	24 VDC (11 VDC to 28.8 VDC)	24 VDC (11 VDC to 28.8 VDC)
Input Impedance	~5.4K ohms	~5.4K ohms	~5.4K ohms
Input Signal Delay	< 0.5msec	< 0.5msec	< 0.5msec
Response Time (ms)	< 0.3msec	10msec	10msec
Trigger Voltage	ON State: 9 VDC, OFF State: 5 VDC	ON State: 9 VDC, OFF State: 5 VDC	ON State: 9 VDC, OFF State: 5 VDC
Points per Common	16	16 for Inputs and 4 for Outputs	16 for Inputs and 1 for Outputs
Output Type	16 Point 24 VDC Negative Logic	16 Point Relay	16 Point Relay
Output Range	Nominal 24 VDC; 11 to 28.8 VDC	5 to 28.8 VDC, 48 VDC, 110 VDC, 250 VAC	5 to 28.8 VDC, 48 VDC, 110 VDC, 250 VAC
Protection	Short protection, Over Temperature Protection, Over Current Limit		
Minimum Output Load		100 micro Amps, 100 millivolts VDC per point	100 micro Amps, 100 millivolts VDC per point
Load Current per Point	0.5 Amps per point	2 Amps at 5 to 28.8 VDC, 0.8 Amps at 48 VDC, 0.5 Amps at 110 VDC, 2 Amps at 250 VAC	2 Amps at 5 to 28.8 VDC, 0.8 Amps at 48 VDC, 0.5 Amps at 110 VDC, 2 Amps at 250 VAC
Output Inrush Current			
Polarity	Source		
Configuration Tool	EDS File	EDS File	EDS File
Interface Connector Type	5 pin connector	5 pin connector	5 pin connector
Power Dissipation	80 mA typical	110 mA typical	110 mA typical
Connector Type	Connector Type Hirose, HIF3A-40D-2.54R (ribbon cable), HIF2C-40D-2.54C (crimp connector), HIF2C-2226SCFA (crimp pin) or equal	Spring Clamp Terminal Block	Spring Clamp Terminal Block
Internal Power Used (5 VDC loading)	Not Applicable	600 mA @ Maximum 5 VDC	600 mA @ Maximum 5 VDC
Dimensions (H x W x D) in mm	80 x 35 x 55	99 x 83 x 70	99 x 83 x 70

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	STXDNS825	STXDNS925
Product Name	**Slave Network Interface with 16 Positive Logic Inputs and 16 Isolated Relay Outputs**	**Slave Network Interface with 16 Negative Logic Inputs and 16 Isolated Relay Outputs**
Lifecycle Status	Active	Active
Module Type	Slave Network Interface	Slave Network Interface
Field Busses/Device Networks	DeviceNet	DeviceNet
Protocol Supported	I/O Slave Message (Group 2 only slave), Poll command. Bit_strobe command, Cyclic command, COS command	I/O Slave Message (Group 2 only slave), Poll command. Bit_strobe command, Cyclic command, COS command
Features		
Baud Rate	125K bits/s, 250Kbps, 500Kbps (Auto baud rate selection)	125K bits/s, 250Kbps, 500Kbps (Auto baud rate selection)
I/O Data Size	Total: Inputs 36 bytes/Outputs 34 bytes total (4 bytes In/ 4 bytes Out for base module and 32 bytes In/30 bytes Out for expansion modules)	Total: Inputs 36 bytes/Outputs 34 bytes total (4 bytes In/ 4 bytes Out for base module and 32 bytes In/30 bytes Out for expansion modules)
LEDs	Module Status, Network Status, I/O Status	Module Status, Network Status, I/O Status
Diagnostic Supported	Yes	Yes
Maximum Bus Length	Up to 500 meters depending on baud rate	Up to 500 meters depending on baud rate
Maximum Number of Nodes Supported	64	64
Number of Expansion I/O Supported	10	10
Number of Points	16 In/ 16 Out	16 In/ 16 Out
System Power Requirement	24 VDC (19.2 to 28.8 VDC) with Current Limit, Reverse Polarity Protection	24 VDC (19.2 to 28.8 VDC) with Current Limit, Reverse Polarity Protection
Field Power Requirement	24 VDC (11 VDC to 28.8 VDC)	24 VDC (11 VDC to 28.8 VDC)
Input Type	16 Point 24 VDC Positive Logic	16 Point 24 VDC Negative Logic
Input Voltage Range	24 VDC (11 VDC to 28.8 VDC)	24 VDC (11 VDC to 28.8 VDC)
Input Impedance	~5.4K ohms	~5.4K ohms
Input Signal Delay	< 0.5msec	< 0.5msec
Response Time (ms)	10msec	10msec
Trigger Voltage	ON State: 9 VDC, OFF State: 5 VDC	ON State: 9 VDC, OFF State: 5 VDC
Points per Common	16 for Inputs and 1 for Outputs	16 for Inputs and 1 for Outputs
Output Type	16 Point Isolated Relay	16 Point Isolated Relay
Output Range	5 to 28.8 VDC, 48 VDC, 110 VDC, 250 VAC	5 to 28.8 VDC, 48 VDC, 110 VDC, 250 VAC
Protection		
Minimum Output Load	100 micro Amps, 100 millivolts VDC per point	100 micro Amps, 100 millivolts VDC per point
Load Current per Point	2 Amps at 5 to 28.8 VDC, 0.8 Amps at 48 VDC, 0.5 Amps at 110 VDC, 2 Amps at 250 VAC	2 Amps at 5 to 28.8 VDC, 0.8 Amps at 48 VDC, 0.5 Amps at 110 VDC, 2 Amps at 250 VAC
Output Inrush Current		
Polarity		
Configuration Tool	EDS File	EDS File
Interface Connector Type	5 pin connector	5 pin connector
Power Dissipation	110 mA typical	110 mA typical
Connector Type	Spring Clamp Terminal Block	Spring Clamp Terminal Block
Internal Power Used (5 VDC loading)	600 mA @ Maximum 5 VDC	600 mA @ Maximum 5 VDC
Dimensions (H x W x D) in mm	99 x 83 x 70	99 x 83 x 70

Discrete I/O Modules (Input)

RSTi discrete input modules are available for a wide range of applications requiring DC voltages (5 VDC, 24 VDC, 48 VDC) and AC voltages (110 VAC, 220 VAC). The input modules are available in 4, 8 or 16 point density to optimize panel space.

	ST-1124	ST-1114	ST-1214	ST-1224	ST-1314
Product Name	**5 VDC Input, 4 points Negative Logic**	**5 VDC Input, 4 points Positive Logic**	**12/24 VDC Input, 4 points Positive Logic**	**12/24 VDC Input, 4 points Negative Logic**	**48 VDC Input, 4 points Positive Logic**
Lifecycle Status	Active	Active	Active	Active	Active
Module Type	Discrete Input	Discrete Input	Discrete Input	Discrete Input	Discrete Input
Input Voltage Range	5 VDC (4.5 VDC to 5.5 VDC)	5 VDC (4.5 VDC to 5.5 VDC)	24 VDC (11 VDC to 28.8 VDC)	24 VDC (10.2 VDC to 28.8 VDC)	48 VDC (34 VDC to 60 VDC)
Number of Points	4	4	4	4	4
Points per Common	4	4	4	4	4
Input Impedance	~1.3K ohms	~1.3K ohms	~5.1K ohms	~5.1K ohms	~12K ohms
Input Signal Delay	< 0.5msec	< 0.5msec	3.0msec	3.0msec	3.0msec
Filtering Time	Typical 1.5 msec. (software filtering)	Typical 1.5 msec. (software filtering)	Typical 1.5 msec.	Typical 1.5 msec.	
Trigger Voltage	On State: 2.4 VDC to 5.5 VDC OFF State: 0.8 VDC	On State: 2.4 VDC to 5.5 VDC OFF State: 0.8 VDC	ON State: 10.2 to 28.8 VDC OFF State: 5 VDC	ON State: 10.2 to 28.8 VDC OFF State: 5 VDC	ON State: 48 VDC (34 VDC to 60 VDC) OFF State: 10 VDC
Maximum On State Current	4.5 mA per point at 5.5 VDC	4.5 mA per point at 5.5 VDC	6 mA per point at 28.8 VDC	6 mA per point at 28.8 VDC	4 mA per point at 48 VDC
Connector Type	Spring Clamp Terminal Block	Spring Clamp Terminal Block	Spring Clamp Terminal Block	Spring Clamp Terminal Block	Spring Clamp Terminal Block
Internal Power Used (5 VDC loading)	35 mA @ 5.0 VDC Maximum	35 mA @ 5.0 VDC Maximum	35 mA @ 5.0 VDC Maximum	35 mA @ 5.0 VDC Maximum	35 mA @ 5.0 VDC Maximum
Dimensions (H x W x D) in mm	99 x 12 x 70	99 x 12 x 70	99 x 12 x 70	99 x 12 x 70	99 x 12 x 70