⧈Simplex

Features

Provides secured local area network Ethernet connections for authorized service access:

- Compatible with Simplex® 4100ES and 4010ES fire alarm control panels

- Appears as an Ethernet switch to the building network and supports dual Ethernet connections

- Supports software downloads and uploads with LAN operation speed

- Allows execution of service level computer port commands

- Allows connection of Service Gateway text/e-mail based remote test service connections

- Local access to LAN either by technician service laptop PC or by pre-authorized PC on-site

- Download site specific software to multiple 4100ES and 4010ES panels equipped with a BNIC module

- Upload site specific software from another 4100ES or 4010ES panel on the same fire alarm network

- Authorized service personnel can log into the BNIC from remote locations, or via the front panel Ethernet connection on 4100ES and 4010ES panels
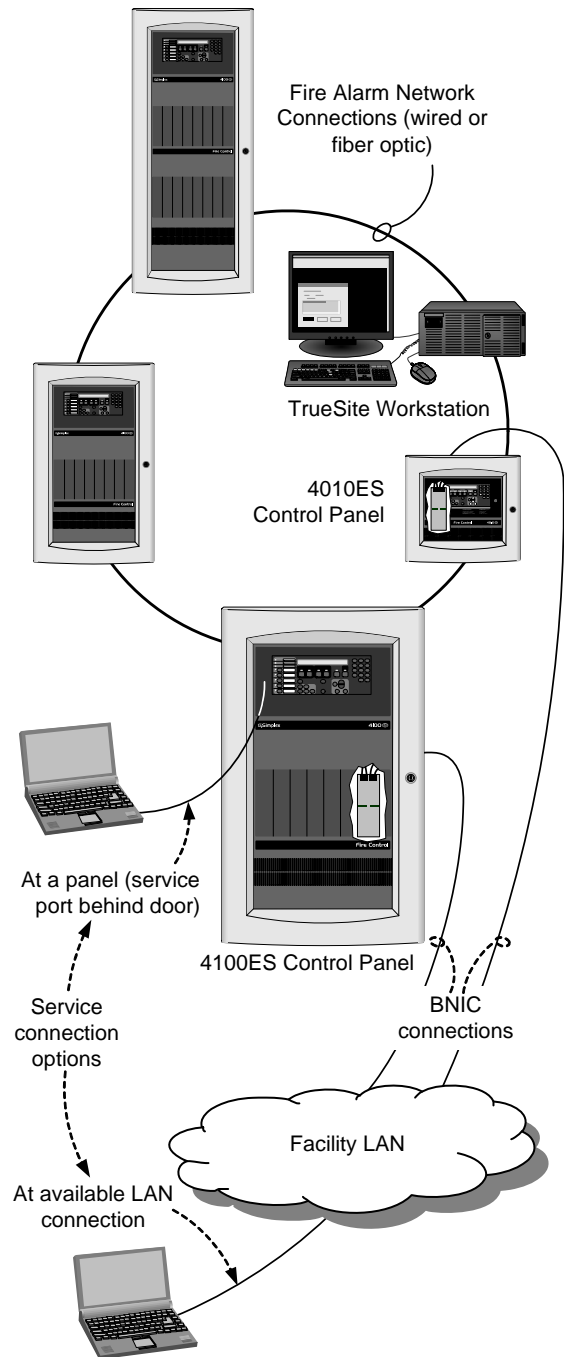
- 4 x 10 Dual vertical block module size

Description

The Building Network Interface Card (BNIC)
provides two external Ethernet ports to securely bridge the 4100ES and 4010ES panels with an external network (e.g. the building network) allowing access to the external network and to any other 4100ES/4010ES panels that are on the external network.

BNIC functionality allows the following functions to be performed while providing secure/authenticated communications:

- Direct connection to the front panel Ethernet service port

- External network connectivity (two external Ethernet port connections)

- Execution of computer port commands to panels on the external network

- 3rd party interfaces using the computer port command line interface across the external network

- Ethernet interface to Simplex software applications such as Service Gateway

- Recovery of site specific programming details (job files) from a panel on the external network

Fire Alarm Network Connections (wired or fiber optic)

TrueSite Workstation

4010ES Control Panel

At a panel (service port behind door)

4100ES Control Panel

Service connection options

BNIC connections

Facility LAN

At available LAN connection

BNIC Connection Reference

* This product has been approved by the California State Fire Marshal (CSFM) pursuant to Section 13144.1 of the California Health and Safety Code. See CSFM Listing 7165-0026:0251 (4100ES) or 7165-0026:0369 (4010ES) for allowable values and/or conditions concerning material presented in this document. It is subject to re-examination, revision, and possible cancellation. Additional listings may be applicable; contact your local Simplex product supplier for the latest status. Listings and approvals under Simplex Time Recorder Co. are the property of Tyco Fire Protection Products.

BNIC Product Selection

Model	Panel Compatibility	Description
4100-6047	4100ES and 4100U	Building Network Interface Card (BNIC) with dual Ethernet ports
4010-9914*	4010ES*	

* Module selection restrictions may apply, refer to the 4010ES data sheet for details.

Specifications

Electrical	Voltage	24 VDC from the control panel
	Current	291 mA maximum; 236 mA typical
	Four On-board Status LEDs	Port Status Offline Status Reset Status Earth Fault
Mechanical	Module Size	Dual vertical block 4 x 10 module
	Temperature	32° to 120° F (0° to 49° C)
	Humidity Range	up to 93% RH at 90° F (32° C)
Reference	Installation Instructions	579-949 (includes an MIS/IT Configuration Worksheet)

Additional Data Sheet Reference

Subject	Data Sheet	Subject	Data Sheet	Subject	Data Sheet
Introducing the 4100ES	*S4100-0060*	MINIPLEX Transponders	S4100-0035	InfoAlarm Command Center	S4100-0045
Basic 4100ES Reference	S4100-0031	TFX Interface Module	S4100-0042	Graphic I/O Modules	S4100-0005
Fire Alarm Network Overview	S4100-0055	Remote Battery Charger	S4081-0002	2120 BMUX Module	S4100-0048
4100ES Enclosures	S4100-0037	Remote Annunciators	S4100-0038	SafeLINC Internet Interface	S4100-0028
4100ES Audio/Phone Modules	S4100-0034	Network Display Unit (NDU)	S4100-0036	Master Clock Interface	S4100-0033
TrueAlert Addressable Products	S4009-0003	Network Communications	S4100-0056	4100ES Releasing Applications	S4100-0040
4010ES Fire Alarm Control Panels	S4010-0004	IDNet+ Module w/Quad Isolator	S4100-0046	Addressable Device Compatibility	S4090-0011
4010ES Releasing Applications	S4010-0005	TrueSite Workstation	S4190-0016	LED/Switch Modules & Printer	S4100-0032

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