Simplex®

UL, ULC, CSFM Listed;
*FM Approved**

Fire Control Panels

Building Network Interface Card (BNIC)
Models 4100-6047 and 4010-9914

Features

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

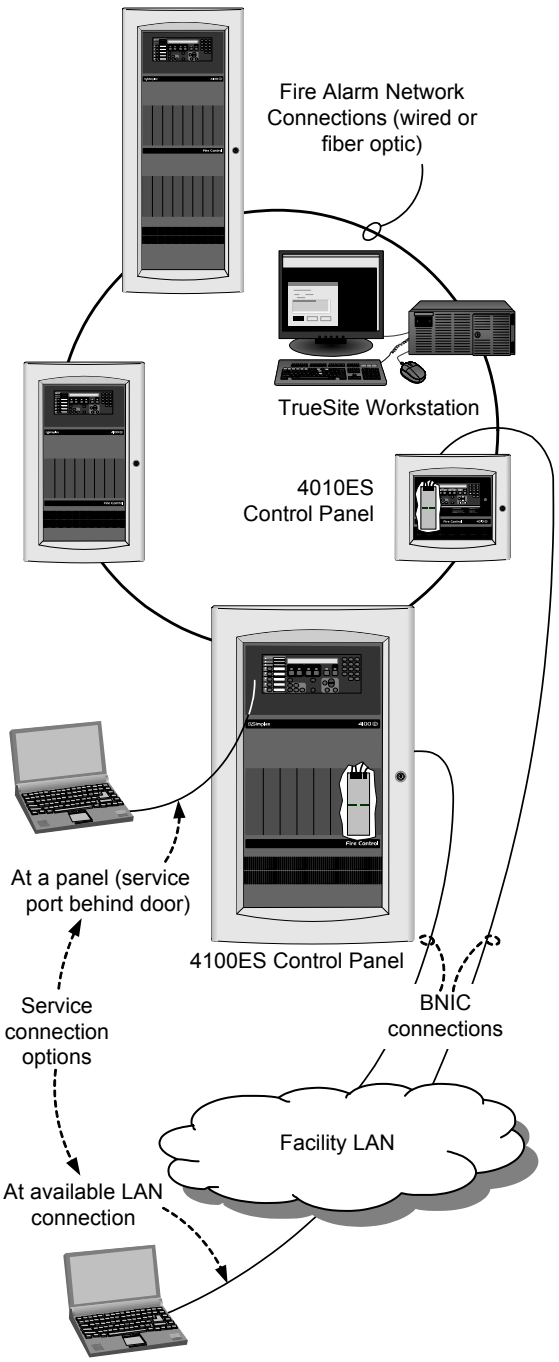
- Compatible with Simplex® 4100ES and 4010ES fire alarm control panels on ES Net or 4120 Network
- Appears as an Ethernet switch to the building network and supports dual Ethernet connections
- Supports software downloads and uploads with LAN operation speed
- Allows execution of service level computer 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
- 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



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. At the time of publication only UL and ULC listings are applicable to ES Net network products. 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.

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ES Net network application

The ES Network (ES Net) is a high bandwidth (100 Mbps) IP based fire alarm network that supports high speed fire alarm control unit software downloads and uploads and execution of service level computer port commands over the fire alarm network from any panel location, without the need for a Building Network Interface Card (BNIC). In most cases, the need to connect to the building network with the Building Network Interface Card is no longer required on ES Network systems. Contact your local Simplex product supplier for additional information on ES Network products and applications.

BNIC Product Selection

Model	Panel Compatibility	Description	Option Block Usage	Alarm/Supv. Current
4100-6047	4100ES and 4100U	Building Network Interface Card (BNIC) with dual Ethernet ports	2 Vertical Blocks (1 max)	291 mA
4010-9914	4010ES		2 Vertical Blocks (1 max)	236 mA

Specifications

LED Diagnostics	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 Product Reference

Subject	Data Sheet
4010ES Panels with Conventional Notification	S4010-0004
4010ES Panels with Conventional Notification (INTL)	S4010-0006
4010ES Panels with Addressable Notification	S4010-0011
4010ES Panels with Addressable Notification (INTL)	S4010-0012
4100ES Basic Panels with SPS Power Supplies	S4100-0031
4120 Network Products and Specifications	S4100-0056
ES Net Network Products and Specifications	S4100-0076
4100ES Basic Panels with EPS Power Supplies	S4100-0100

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