# Installation
# Fibre Network Card (EN+BS)
## (VIG-NC-FO and VIG-NC-DOM-FO) for Vigilon Network

GENT
by Honeywell



SW1 Switch

Notch

The fibre network card allows fast message passing to the network. The card must be plugged into the backplane of the panel or node in a dedicated slot. The fibre optic cables connect directly to sockets on the card. There are two builds of the fibre network cards for secure EN54 and BS Vigilon networks.

## MCC compatibility

Before installing this Fibre Network Card in either EN or BS Vigilon Control panel, ensure the panel's Main Control Card (MCC) has compatible software.

|  | Fibre Network (Node) Card VIG-NC-FO | Fibre Network (Domian) Card VIG-NC-DOM-FO |
|---|---|---|
| EN Vigilon panel | MCC V4.00 or later | MCC V4.16 or later |
| BS Vigilon panel | MCC V3.90 or later | MCC V3.90 or later |

## Fibre Network Card Chip options

|  | NODE | DOMAIN |
|---|---|---|
|  | VIG-NC-FO | VIG-NC-DOM-FO |
| EN Vigilon panel | 2211-139 <br> **factory fitted** to the network card | 2211-141 <br> **factory fitted** to the network card |
| BS Vigilon panel | 2211-140 <br> optional chip supplied for the network card | 2211-142 <br> optional chip supplied for the network card |

⚠ **Ensure antistatic precautions are taken when replacing chip on the card. It is recommended that a suitable chip extractor is used when extracting chip from the card, such as the one from RS part number 480-3005.**

☐ VIG-NC-FO Fibre Optic Network card
Using the Fibre Optic Network card VIG-NC-FO up to 31 Control panels and Network Nodes can be connected in a secure loop. There can be up to 2Km Fibre Optic cable distance between panel and node.
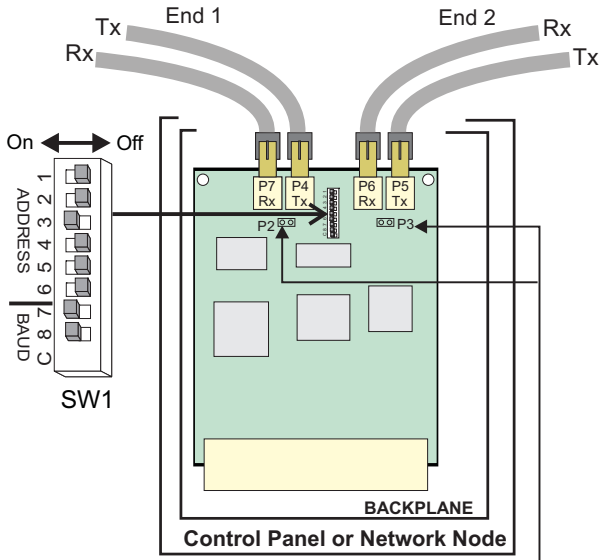
☐ VIG-NC-DOM-FO Fibre Optic Network card (for Domain bridge)
Using the Fibre Optic Network card VIG-NC-DOM-FO up to 64 smaller networks can be connected to form a secure domain. The Fibre Optic cable distance between nodes of the smaller networks can be up to 2Km. The entire system can have up to 200 panels/nodes.

## Specification

| Overall size | 144mm height x 100mm width |
|---|---|
| Address     Domian- <br>                      Node- | 1 to 64  (VIG-NC-DOM-FO) <br> 1 to 31   (VIG-NC-FO) |
| Baud | 19.2K, 38.4K, 115.2K & 230.4K |
| Terminations / Fibre Optics | ST connection is by means of the ST sockets on the Network card. Cable: Multi mode 62.5 / 125µm Fibre 820nm wavelength |
| Weight | 82g (approximate) |
| Operating temperature | 0°C to 45°C |
| Storage temperature | -10°C to 55°C |
| Relative humidity (non condencsing) | up to 90% |

## Connecting Panels and Nodes



**Control Panel or Network Node**

Links P2 and P3 are booster links.
Normally the links are not fitted, however for distance exceeding 750m the links must be fitted.
P2 settings are for End 1
P3 settings are for End 2

**Ensure the patch leads are of the correct length. The leads connect directly to the Fibre Network Card and patch panel.**

## SW1 switch settings for VIG-NC-FO

Set the switch SW1 to site specific requirements for a secure network.

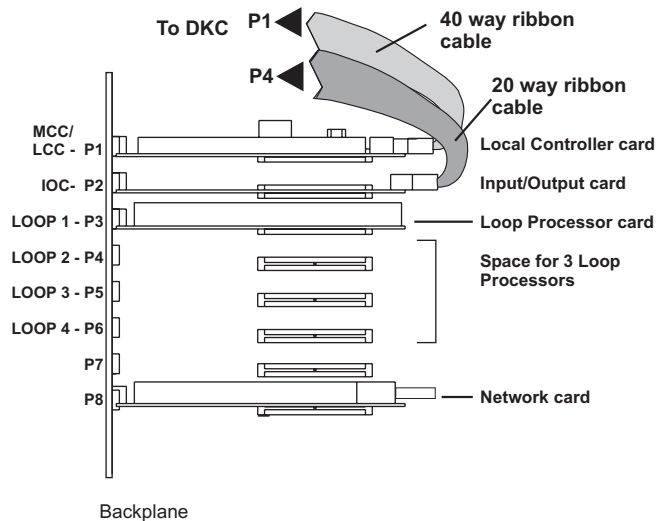| | Switches for Node Address | | | | | | Switches for Baud rate | | |
|---|---|---|---|---|---|---|---|---|---|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | |
| | - | - | - | - | - | - | off | off | 19.2K |
| 1 | on | off | off | off | off | off | on | off | 38.4K |
| 2 | off | on | off | off | off | off | off | on | 115.2K |
| 3 | on | on | off | off | off | off | on | on | 230.4K |
| 4 | off | off | on | off | off | off | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| 31 | on | on | on | on | on | off | | | |

- Factory settings

## SW1 switch settings for VIG-NC-DOM-FO

Set the switch SW1 to site specific requirements for a secure domain network.

| | Switches for Domain address | | | | | | Switches for Baud rate | | |
|---|---|---|---|---|---|---|---|---|---|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | |
| 64 | off | off | off | off | off | off | off | off | 19.2K |
| 1 | on | off | off | off | off | off | on | off | 38.4K |
| 2 | off | on | off | off | off | off | off | on | 115.2K |
| 3 | on | on | off | off | off | off | on | on | 230.4K |
| 4 | off | off | on | off | off | off | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| 63 | on | on | on | on | on | on | | | |

- Factory settings

## Backplane slot locations



Backplane

At the end of their useful life, the packaging, product and batteries should be disposed of via a suitable recycling centre and in accordance with national or local legislation.

**WEEE Directive:**
At the end of their useful life, the packaging, product and batteries should be disposed of via a suitable recycling centre.
Do not dispose of with your normal household waste.
Do not burn.

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