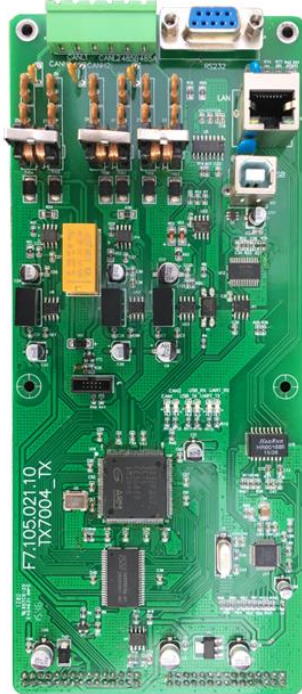# NC7004

## Network Communication Card

### Features and Benefits

- Multiple communication protocol in one card.
- Support USB, Ethernet, Can bus and Serial ports.
- Optional Card to be added on the panel as required
- Compatible with TX7004 control panel
- Transmission path is fully monitored
- No Card positioning and addressing required
- Plug-in terminals, field wiring terminals are removable
- Easy to install

### Overview

The NC7004 is multiple communication protocols such a USB, Ethernet, Can Bus, RS485/RS232 on a single card intended to use in TX7 series control and indicating equipment. These four protocols synchronously working separately, the USB port is used for programing the control panel by uploading the data base form the laptop and for interfacing the Graphic Monitor Center (TX7812) server and client machine, while the CAN Bus signal is for the networking that can support up to 512 control panel in one ring. The ethernet port is used for email notification or for an IP networking if required. The RS485/RS232 is use for interfacing third party system such as building management system.

The NC7004 support the pathway requirement on the use of non-life safety networks and Ethernet when interconnecting life safety networking. The transmission path of the Can bus is fully monitored such as in the case of a short or open circuit fault and fault is reported to the control panel. The NC7004 card is panel mount type that can be installed in any available loop port or communication port, the control panel will automatically assign the loop number when powered-on.

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## Technical Specification

**Protocol**

| | |
|---|---|
| USB | Interface for TX7810 Programing software and TX7812 GMC |
| Ethernet | Optional TCP/IP Network or Email notification feature |
| CanBus | Network interface that monitor and control up to 512 control panels |
| Serial | RS 232/485 for other third-party system (Optional Modbus RTU) |

**Power Rating Cable**
USB: 15meters USB cable
Can Bus: 3Km Max at 2 x 1.50 mm2 solid core fire resistance
RS232 Serial: 15 meters
RS485 Serial: 1000 meters

**Operating Environment**

| | |
|---|---|
| Temperature | -10℃~+55℃ |
| Relative Humidity | ≤95%, non-condensing |

## Ordering Information

| | |
|---|---|
| **NC7004** | Communication Card for Class A CAN Bus networkable, and RS485/RS232/USB/Ethernet port. |
| **NC7004-Modbus** | Communication Card for Class A CAN Bus networkable, and RS485/RS232/USB/Ethernet port. Support Modbus RTU signal output. |
| **NC7004-IP** | Communication Card for Class A CAN Bus networkable, and RS485/RS232/USB/Ethernet port. Support TCP/IP Networking |

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