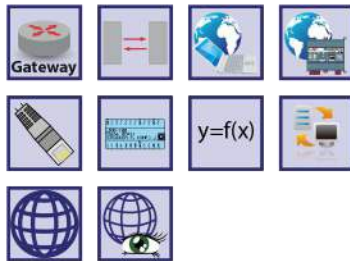


BACnet
 ✓ CEA-709
 KNX

Modbus
 M-Bus
 OPC

NIC Network Interface NIC709-IP3E100C, NIC709-IP1E100C, NIC709-USB100, NIC852-SW, NIC852

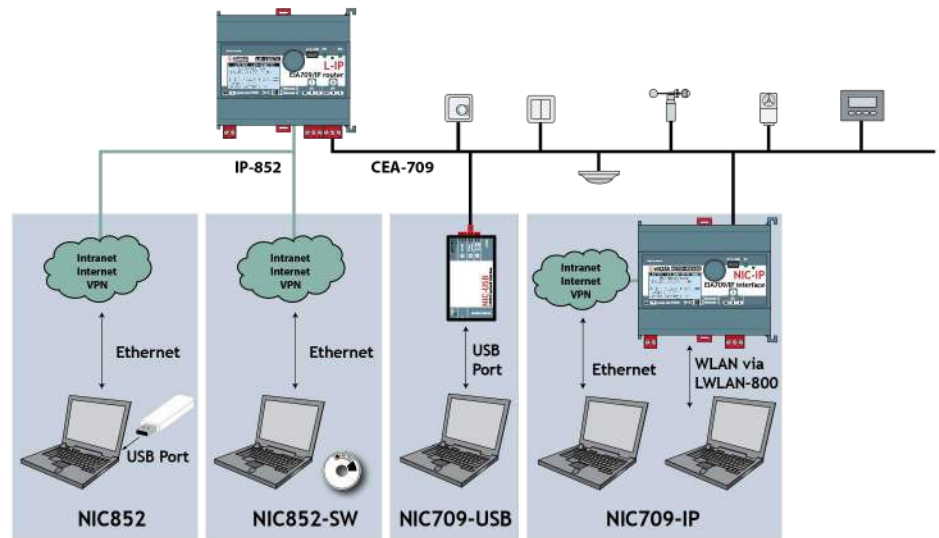
Datasheet #89013522



LOYTEC NICs are the most universal network interfaces for CEA-709 and IP-852 (Ethernet/IP) channels. Based on LOYTEC's Core Technologies, they offer high packet rates and short response times. All NICs are fully compatible with products like NL220, ALEX, LonMaker®, and other LNS® applications. The NICs are also compatible with NodeUtil32, NLUtil, OPC servers, and high performance ORION applications.

The multiplexed network interface (MNI) support allows starting multiple LNS® or MIP applications to run in parallel with an LPA on a single network interface.

The built-in VPN function provides for simple VPN setup and secure access to remote sites. The LTE-800 interface enables wireless access to remote sites through a mobile carrier.



Features

- Network interface for TP/FT-10, TP/XF-1250, RS485, and Ethernet/IP (IP-852) channels
- Available for USB and Ethernet port
- Create up to eight network nodes with a single network interface (MNI devices)
- Use the LPA, LSD Tool, your ORION applications, MIP applications, and LNS® (VNI) applications on a single network interface at the same time
- Compatible with BMS e.g. Honeywell EBI, TAC VISTA, etc.
- Compatible with LNS® applications in high performance VNI™ mode e.g. NL220, NLFacilities, NLOPC-VNI, ALEX, LonMaker®, etc.
- Compatible with MIP applications (LDV interface) e.g. NodeUtil32, NLUtil, NLOPC-MIP, Honeywell CARE 5/7, etc.
- Compatible with high performance ORION applications (ORION API)
- NIC852 is fully compatible with L-IP and i.LON® 600 Internet routers
- Use legacy MIP applications together with the IP-852 (Ethernet) channel
- With dual Ethernet, switched or separated (only NIC709-IP3E100C, NIC709-IP1E100C)
- Supports WLAN with LWLAN-800 Interface (only NIC709-IP3E100C, NIC709-IP1E100C)
- Supports LTE with LTE-800 Interface (only NIC709-IP3E100C, NIC709-IP1E100C)
- Runs on Windows 10, Windows Server 2012, Windows Server 2016, Windows Server 2019

Functions
 L-WEB, L-STUDIO
 L-ROC
 L-INX
 L-IOB
 Gateways
 L-PAD-7,
 L-VIS, L-STAT
 L-DALI
 Routers, NIC
 Interfaces
 Accessories

NIC Network Interface

NIC709-IP3E100C, NIC709-IP1E100C, NIC709-USB100, NIC852-SW, NIC852

Specifications NIC709-USB100

| | |
|----------------------|--|
| Type | NIC709-USB100 |
| Dimensions (mm) | 120 x 70 x 23 (L x W x H), DIM052 |
| Power supply | Via USB, max. 130 mA |
| Operating conditions | 0 °C to 50 °C, 10–90 % RH, noncondensing, degree of protection: IP40, IP20 (terminals) |
| Interfaces | 1 x TP/FT-10 1 x TP/XF-1250 1 x RS-485 (ANSI TIA/EIA-485) |
| Tools | LOYTEC Network Interface NIC software |
| Operating system | Windows 10, Windows Server 2012, Windows Server 2016, Windows Server 2019 |

Resource limits

MNI devices 8 (multiplexed network interfaces)

Specifications NIC709-IP3E100C (successor of NIC709-IP3E100) and NIC709-IP1E100C (successor of NIC709-IP1E100)

| Type | NIC709-IP3E100C | NIC709-IP1E100C |
|----------------------|--|------------------------|
| Dimensions (mm) | 107 x 100 x 75 (L x W x H), DIM046 | |
| Installation | DIN rail mounting following DIN 43880, top hat rail EN 50022 | |
| Power supply | 12-35 VDC / 12-24 V AC ±10 %, typ. 2.5 W | |
| Operating conditions | 0 °C to 50 °C, 10–90 % RH, noncondensing, degree of protection: IP40, IP20 (terminals) | |
| Interfaces | 2 x Ethernet (100Base-T): HTTP, FTP, SSH, HTTPS, Firewall, NTP, VNC, SNMP 2 x USB-A: WLAN (needs LWLAN-800) LTE (needs LTE-800) | |
| | 1 x TP/FT-10 | 1 x TP/XF-1250 |
| Tools | LOYTEC Network Interface NIC Software | |
| Operating system | Windows 10, Windows Server 2012, Windows Server 2016, Windows Server 2019 | |

Resource limits

MNI devices 8 (multiplexed network interfaces)

Specifications NIC852

| | |
|------------------|---|
| Power supply | Via USB, max. 50 mA |
| Interfaces | 1 x USB PC connector |
| Tools | LOYTEC Network Interface NIC software |
| Operating system | Windows 10, Windows Server 2012, Windows Server 2016, Windows Server 2019 |

Resource limits

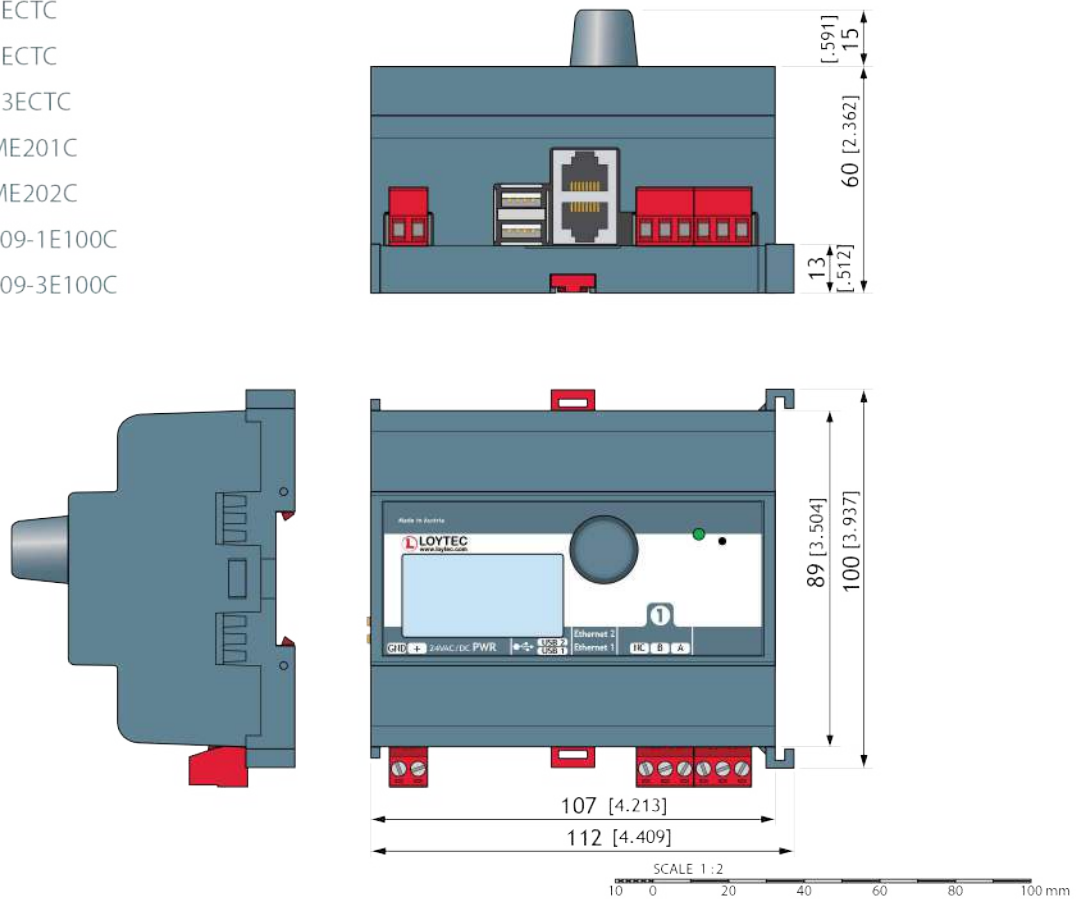
MNI devices 8 (multiplexed network interfaces)

| Order number | Product description |
|-----------------|--|
| NIC709-USB100 | USB interface, connects to the USB port of a PC, supports LonMark TP/FT-10, TP/XF-1250, TP/RS-485 channels |
| NIC709-IP3E100C | Remote network interface (RNI), PC connection via Ethernet or WLAN, for a LonMark TP/FT-10 channel |
| NIC709-IP1E100C | Remote network interface (RNI), PC connection via Ethernet or WLAN, for a LonMark TP/XF-1250 channel |
| NIC852 | Floating license via USB hardlock key, uses Ethernet port of PC to connect to LonMark IP-852 channel |
| NIC852-SW | Software license for one PC, uses Ethernet port of PC to connect to LonMark IP-852 channel |
| LPOW-2415B | Power supply unit with power connector 24 VDC, 15 W |
| LWLAN-800 | Wireless LAN Interface IEEE 802.11bgn |
| LT-03 | Network terminator, 1 x TP/FT-10 or TP/LPT-10 (bus or free topology), 1 x Network Access Connector RJ45 |
| LT-13 | Network terminator, 1 x TP/FT-10 or TP/LPT-10 (bus or free topology), 1 x TP/XF-1250 |
| LT-33 | Network terminator, 2 x TP/FT-10 or TP/LPT-10 (bus or free topology) |
| LTE-800 | LTE Interface |

Dimensions of the devices in mm and [inch]

DIM046

- LIP-1ECTC
- LIP-3ECTC
- LIP-33ECTC
- LIP-ME201C
- LIP-ME202C
- NIC709-1E100C
- NIC709-3E100C



DIM052

NIC709-USB100

