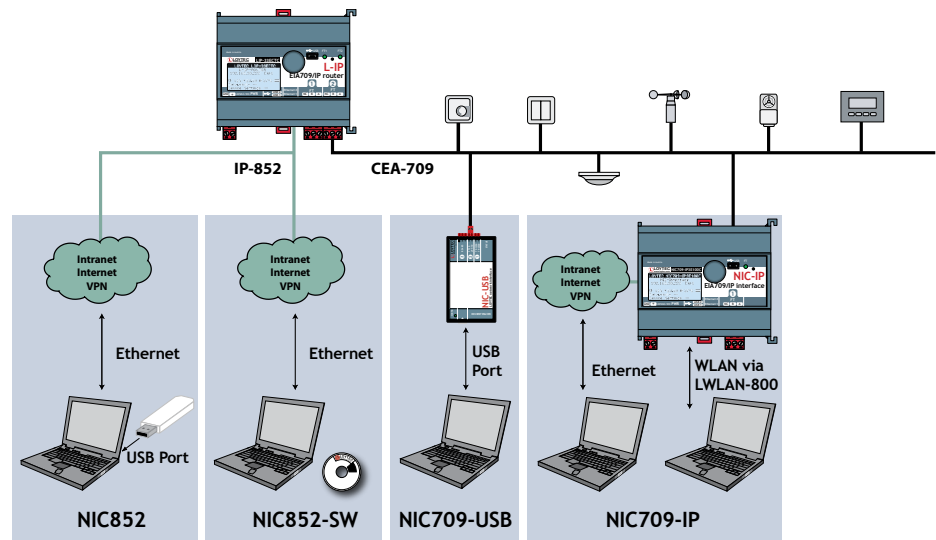


LOYTEC NICs are the most universal network interfaces for CEA-709 and IP-852 (Ethernet/IP) channels. Based on LOYTEC's Core Technologies, they offer high packet rates and short response times. All NICs are fully compatible with products like NL220, ALEX, LonMaker®, and other LNS® applications. The NICs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

# NIC Network Interface

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

### Specifications NIC709-USB100

Type	<b>NIC709-USB100</b>
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)
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### Specifications NIC709-IP3E100C (successor of NIC709-IP3E100) and NIC709-IP1E100C (successor of NIC709-IP1E100)

Type	<b>NIC709-IP3E100C</b>	<b>NIC709-IP1E100C</b>
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)
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### 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

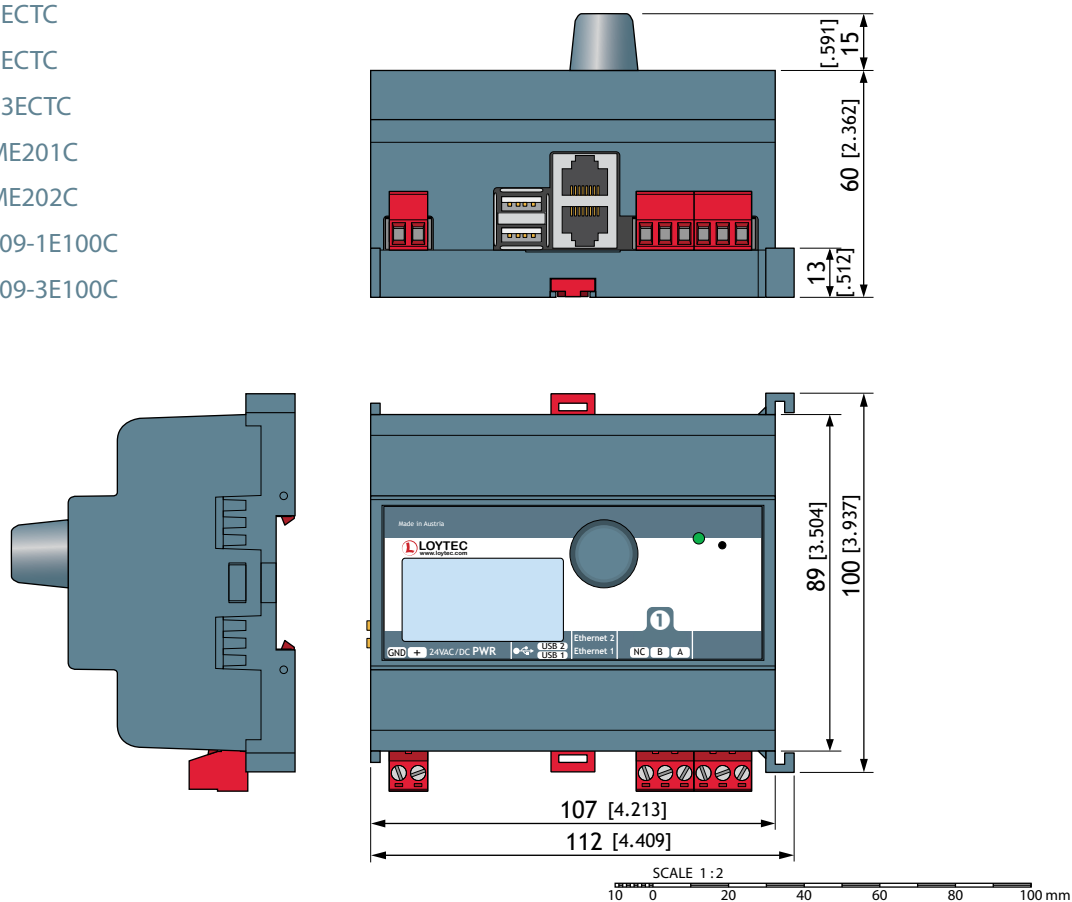
MNI devices	8 (multiplexed network interfaces)
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Order number	Product description
NIC709-USB100	USB interface, connects to the USB port of a PC, supports LonMark TP/FT-10, TP/XF-1250, TP/RS-485 channels
NIC709-IP3E100C	Remote network interface (RNI), 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]

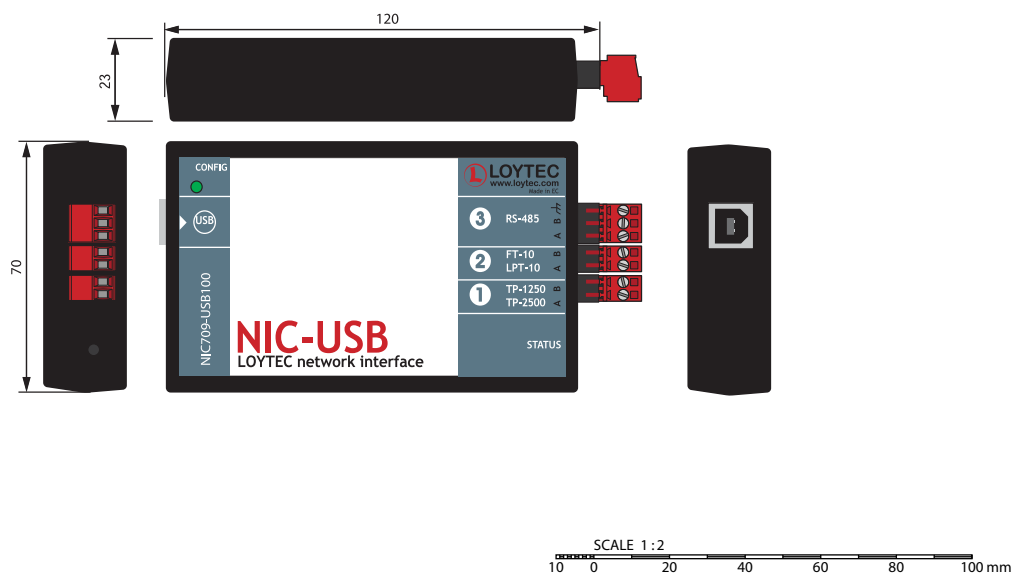
### DIM046

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



### DIM052

NIC709-USB100



The products of LOYTEC electronics GmbH are subject to constant development. Therefore, LOYTEC reserves the right to modify technical specifications at any time without prior notice. The most recent datasheet can be downloaded from [www.loytec.com](http://www.loytec.com).