

# Metra Network Controller

## Technical Data Sheet

Manufacturer:	Metra inženiring d.o.o. IOC Trzin Špruha 19 SI-1236 Trzin, Slovenia	phone: +386 1 56 10 740 fax: +386 1 56 10 744 web: <a href="http://www.metra.si">www.metra.si</a>
Trade Mark:	Metra MEW System	
Model/Type ref.:	Metra Network Controller and Metra Network Controller plus	
Product code:	NCTCP_001 and NCTCPP_001	
Year of Construction:	2017 - 2019	

### 1. PRODUCT DESCRIPTION



Metra Network Controller is a protocol converter/link between a Metra NET Network (CAN) and a computer LAN network (TCP/IP). It enables communication between Metra devices and Metra Server software installed on a server in the same LAN network.

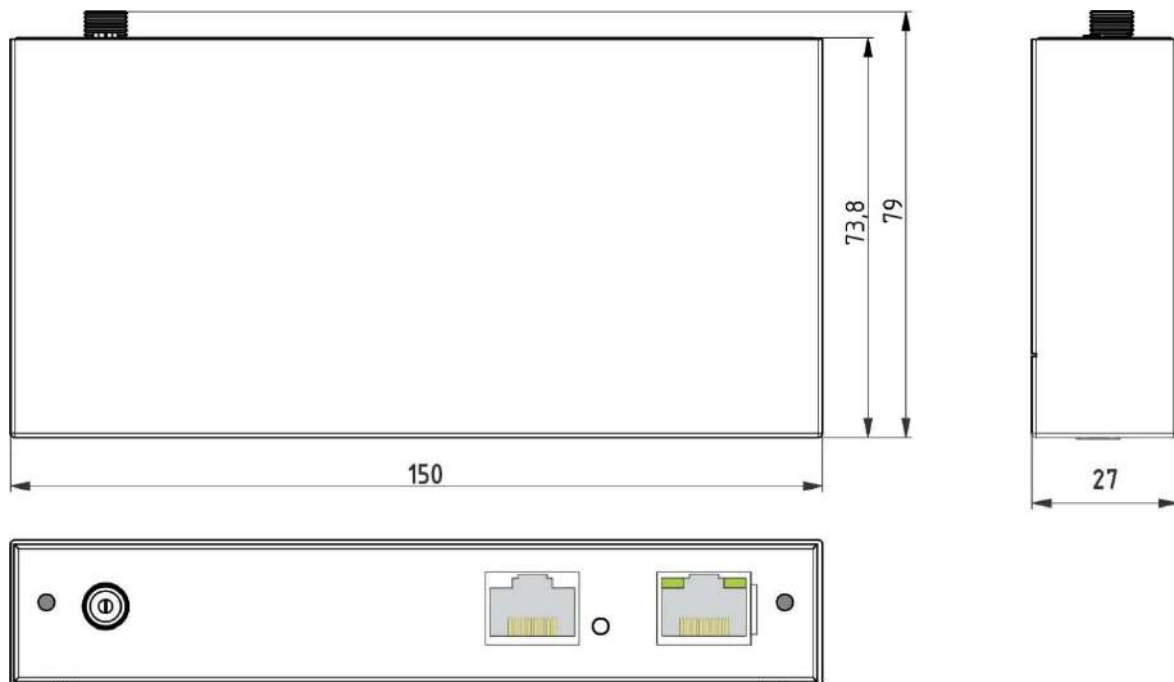
Network Controller controls up to 60 devices connected to Metra NET Network. If more than 60 devices are used in a system several separate Metra NET networks are controlled by Network Controllers which are mutually connected over LAN network. There are two available operating modes: single (master) and dual (master/slave).

In single mode only one Metra Network Controller is used for each Metra NET network. The other option is to use the dual mode, where two Network Controllers control the same Metra NET network and Network Controller acts as master while the other one is a redundant slave that takes over the control of Metra NET network in case of master malfunction, etc. Master device is connected to one end of Metra NET Network while the slave device to the other. In normal operation only master device controls all devices on the Metra NET Network. Slave serves as hot spare and is activated in case of LAN, Metra NET or master device failure. If Metra NET Network gets interrupted both devices become master and take control of devices connected to their segment of Metra NET Network. Two external push-buttons can be connected to the device, which enable emergency opening of Metra lockers connected to it.

There are two similar products that differ only in the Lantronix circuit and consequently in network protocols:

<b>NCTCP_001</b>	<b>Lantronix XPort®</b>	HTTP, SMTP
<b>NCTCPP_001</b>	<b>Lantronix XPort® EDGE</b>	HTTP(S), E-SMTP, SNTP

## 2. TECHNICAL DATA



<b>Operating voltage</b>	12V DC regulated (11.5 – 15V DC tolerated)
<b>Current consumption</b>	0.3 A
<b>Energy consumption</b>	86 Wh/day
<b>Operating temperature range:</b>	0°C up to +50°C
<b>Operating relative humidity range</b>	10% to 80% non-condensing
<b>Visual LED signalization:</b>	1 x run LED, 1 x LAN, 1 x Metra NET Network,
<b>Storage:</b>	Non volatile memory buffer to store
<b>Dimensions in mm (w/h/l):</b>	150 / 27 / 79
<b>Metra NET (CAN):</b>	Optically Isolated CAN controller. 1000 V isolation voltage
<b>Connectors:</b>	Power, Metra NET Network, LAN network, 2 x Push-button input (Emergency opening of Lockers)
<b>Network protocols:</b>	<b>NCTCP_001:</b> HTTP, SMTP
	<b>NCTCPP_001:</b> HTTP(S), E-SMTP, SNTP