





COMMUNICATION GATEWAY PRODUCT GUIDE

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Document Approval

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Technical Review:		
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Revision History

Document Changes					
Date	Rev	Author/Modifier	Description of Changes		
04.05.2016	1.0	Domagoj Ožanić	Initial document		

PROZA LKKU 1122C COMMUNICATION GATEWAY



SOFTWARE ORDER CODES					
Number of process points	PNLKKU1SW-PP(nnn)				
Redundancy	PNLKKU1SW-RDN				
Communication protocols					
IEC 60870-5-101 Master	PNLKKU1SW-101M				
IEC 60870-5-104 Master	PNLKKU1SW-104M				
IEC 60870-5-104 Slave	PNLKKU1SW-104S				
IEC 60870-5-103 Master	PNLKKU1SW-103M				
IEC 61850 MMS Client	PNLKKU1SW-61850C				
MODBUS RTU Master	PNLKKU1SW-MODBUSRM				
MODBUS RTU Slave	PNLKKU1SW-MODBUSRS				
MODBUS TCP Master	PNLKKU1SW-MODBUSTM				
MODBUS TCP Slave	PNLKKU1SW-MODBUSTS				

SOFTWARE LICENSE INFORMATION

Number of process points

This is the total number of process points in database. In license code it is presented as "nnn" which is the exact number of process points. **This license is mandatory.**

Redundancy

Redundant system specification.

Communication Protocols

License for needed communication protocols. License is counted per communication protocol with unlimited number of lines or stations. However maximum number can be limited by CPU and memory limitations.

More information about PROZA LKKU software is available in separate documentation.

HARDWARE ACCESORIES				
Single port Gigabit USB 2.0 network card				
Startech USB21000S (ASIX - AX88178 chipset) Several additional gigabit network ports can be added in USB slots. Maximum speed is limited to USB 2.0 standard (480 Mbps) Temperature range of network card is suitable for industrial use $(0 - 70 \ \text{C})$.				
24 Watt PSU Traco Power TCL024-112 (12V/2A) External TRACO power supply is delivered with every computer. Power supply redundancy is supported by power supply. One PSU can supply two systems. In redundant configurations it is recommendable to connect both PSU to both computers.				

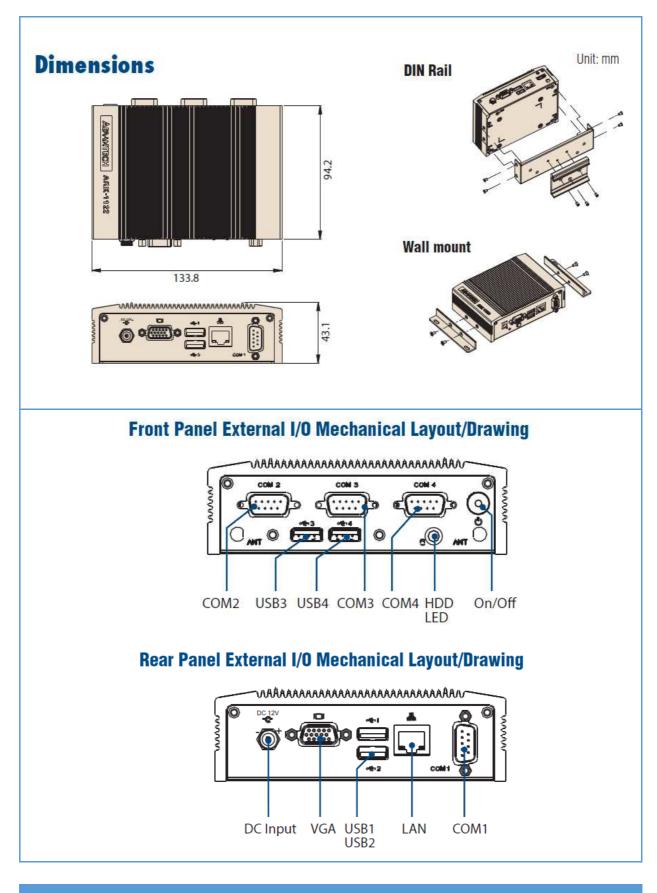
HARDWARE INSTALLATION

DIN Rail/Wall mount plates enables ARK 1122C to be installed in horizontal or vertical position since there are no moving parts inside the case. If installation is done horizontally or vertically at least 10 cm of free space must be ensured for the proper heat dissipation over the main heat sink.

Although vertical installation positions are most effective considering heat dissipation.

When mount plates are fixed to metal of the cabinet the recommendation is not to use supplied rubber in between because metal to metal contact will improve heat dissipation from ARK 1122C to the metal construction of the cabinet.

Always do proper ground connection of ARK 1122C.



HARDWARE MAINTAINANCE

Since there are no moving parts or fans inside ARK 1122C maintenance is reduced to the following procedures:

- 1. Every 3-5 years it is needed to replace thermal paste of the main heat sink on the top of the case. Thermal paste is losing its characteristics and should be replaced because main heat sink is very important for ARK 1122C to function properly.
- 2. SSD disc should be replaced approx. every 5 years. The period can be much longer since it depends on the usage (number of write operations). SSD discs are with time shrinking in space taking out of use bad sectors.