



## LUMIA EdgeHMI

|                      | Embedded - HMI                                                                      | Embedded - HMI + PLC                                  | IPC                                                                                                                                                                                                            |
|----------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| O.S.                 | Linux Debian 10                                                                     | Linux Debian 10 + Raspbian OS                         | Windows 10 LTSC 2019                                                                                                                                                                                           |
| Application software | Kreo HMI                                                                            | Kreo HMI + Codesys 3.x                                | Kreo HMI                                                                                                                                                                                                       |
| Display Size         | 10,1" (1280 x 800)<br>15,6" (1366 x 768)<br>21,5" (1920x 1080)<br>27" (1920 x 1080) |                                                       |                                                                                                                                                                                                                |
| Display technology   | TFT                                                                                 |                                                       |                                                                                                                                                                                                                |
| Display Backlight    | Led                                                                                 |                                                       |                                                                                                                                                                                                                |
| Display Colors       | 16M                                                                                 |                                                       |                                                                                                                                                                                                                |
| Touch Technology     | Capacitive                                                                          |                                                       |                                                                                                                                                                                                                |
| Bezel / Chassis      | Aluminium                                                                           |                                                       |                                                                                                                                                                                                                |
| Processor - HMI      | RK3399<br>Dual-core Cortex-A72 + Quad-core Cortex-A53                               | RK3399<br>Dual-core Cortex-A72 + Quad-core Cortex-A53 | Celeron Quad Core J3455E – 2,3 GHz<br>Intel Core i3-7100U 2,4 GHz<br>Intel Core i5-7300U 3,5 GHz<br>Intel Core i7-7600U 2,8 GHz                                                                                |
| Processor - PLC      |                                                                                     | Broadcom BCM2711, Cortex A72 QC                       |                                                                                                                                                                                                                |
| Chipset              |                                                                                     |                                                       | SoC                                                                                                                                                                                                            |
| GPU                  |                                                                                     |                                                       | Celeron Quad Core J3455 - HD Graphics 500<br>Intel Core i3-7100U – HD Graphics 620 – up to 1 GHz<br>Intel Core i5-7300U – HD Graphics 620 – up to 1 GHz<br>Intel Core i7-7600U – HD Graphics 620 – up to 1 GHz |
| RAM - HMI            | 2G DDR4                                                                             | 2G DDR4                                               | Celeron Quad Core J3455 – 4GB DDR3L up to 8 GB DDR3L<br>Intel Core i3-7100U 2,4 GHz<br>Intel Core i5-7300U 3,5 GHz<br>Intel Core i7-7600U 2,8 GHz<br>4GB up to 16 GB DDR4                                      |
| RAM - PLC            |                                                                                     | 4GB LPDDR4                                            |                                                                                                                                                                                                                |
| Mass storage - HMI   | 16GB eMMC                                                                           | 16GB eMMC                                             | 256 GB SSD<br>512GB SSD<br>1TB SSD                                                                                                                                                                             |
| Mass storage - PLC   |                                                                                     | 16GB micro SD                                         |                                                                                                                                                                                                                |
| Ethernet Port - HMI  | 1*1Gb+1*100Mb                                                                       | 1*1Gb+1*100Mb                                         | Celeron Q.C.J3455 –2x1Gb RJ45 Intel I211AT<br>Intel Core 7GEN - 2x 1Gb RJ45 Intel I210AT/I219LM                                                                                                                |
| Ethernet Port - PLC  |                                                                                     | 1*1Gb                                                 |                                                                                                                                                                                                                |
| Realtime fieldbus    |                                                                                     | Ethercat master                                       |                                                                                                                                                                                                                |



|                                  |                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                         |                                                                                                                                                                                                                         |
|----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Wifi - HMI                       | 2,5 / 5 GHZ support (client)                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                         |                                                                                                                                                                                                                         |
| Wifi - PLC                       |                                                                                                                                                                                                                                                                     | 2,5 / 5 GHZ support (client/hotspot)                                                                                                                                                                                                    |                                                                                                                                                                                                                         |
| COM Port                         |                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                         | 1x RS232/RS485                                                                                                                                                                                                          |
| USB Port                         | 1xUSB3.0 + 1xUSB2.0                                                                                                                                                                                                                                                 | 1xUSB3.0 + 1xUSB2.0<br>2 x USB 3.0; 2 x USB 2.0                                                                                                                                                                                         | Celeron QC J3455 – 2 x 3.1<br>Intel Core 7th GEN – 4 x 3.0                                                                                                                                                              |
| Power Supply (Vdc)               | 12 – 32V DC                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                         |                                                                                                                                                                                                                         |
| Consumption (W)                  | 12W 10,1"<br>18W 15,6"<br>28W 21"<br>28W 27"                                                                                                                                                                                                                        | 14W 10,1"<br>20W 15,6"<br>30W 21"<br>30W 27"                                                                                                                                                                                            | 30W 10,1"<br>35W 15,6"<br>50W 21"<br>50W 27"                                                                                                                                                                            |
| Operating Temperature (°C)       | 0 ... + 50 °C                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                         |                                                                                                                                                                                                                         |
| Storage Temperature (°C)         | -20 ... + 65 °C                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                         |                                                                                                                                                                                                                         |
| Humidity                         | <90% (non condensing)                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                         |                                                                                                                                                                                                                         |
| External dimensions(W/H /D) (mm) | 10" panel - 269 x 190 x 44.1<br>15" panel - 402.4 x 251.7 x 47.4<br>15" vesa - 381 x 231.3 x 59.3<br><br>10" vesa 250.6 x 171.6 x 40,1<br><br>21.5" vesa 530 x 320 x 60<br>21,5" panel 560 x350 x50<br><br>27" vesa 648,4x 385,5 x 66,5<br>27" panel 683 x 420 x 60 | 10" panel - 269 x 190 x 69.4<br>15" panel - 402.4 x 251.7 x 72.7<br>15" vesa - 381 x 231.3 x 59.3<br><br>-<br><br>21.5" vesa 530 x 320 x 60<br>21,5" panel 560 x350 x70<br><br>27" vesa 648,4x 385,5 x 66,5<br>27" panel 683 x 420 x 70 | 10" panel 69 x 190 x 70x2<br>15" panel 402.4 x 251.7 x 73..4<br>15" vesa 381 x 231.3 x 80.65<br><br>21.5" vesa 530 x 320 x 80<br>21,5" panel 560 x350 x75<br><br>27" vesa 648,4x 385,5 x 85<br>27" panel 683 x 420 x 75 |
| Cut-out dimensions (W/H)(mm)     | 10" panel - 258.5 x 179.5<br>15" panel - 390 x 239<br><br>21" 547x337<br>27" 670 x 406                                                                                                                                                                              |                                                                                                                                                                                                                                         |                                                                                                                                                                                                                         |



|                   |                                                                                                                                                                                                                                                                             |                                  |
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| Weight (kg)       | 10" 5<br>15" 6,5<br>21,5 8KG<br>27" 10Kg                                                                                                                                                                                                                                    |                                  |
| Protection degree | Panel – IP66 front<br>Vesa – IP66 all around                                                                                                                                                                                                                                |                                  |
|                   | CE - RED (2014/53/EU):<br>Safety: EN 62368-1:2020 + A11:2020<br>Health: EN 62479:2010<br>EMC: ETSI EN 301 489-1 V2.2.3 (2019-11)<br>ETSI EN 301 489-17 V3.2.4 (2020-09)<br>Radio: ETSI EN 300 328 V2.2.2, ETSI EN 301 893<br>V2.1.1 (2017-05)<br>UL/ATEX/DNV available soon | CE<br>UL/ATEX/DNV available soon |