



# LUMIA Rock 1, 2, 3

|              | LUMIA ROCK1   |  |
|--------------|---|--|
| CPU          | J1900   | J6412,i3-1115G4/i5-1135G7/i7-1165G7                        |
| RAM          | 4G,8G DDR3L   | 4G, 8G, 16G, 32G, 64G 2x Dual DDR4 3200MHz (J6412 max.32G) |
| Storage      | SSD: 128GB, 256GB, 512GB, 1TB, 2TB                                |  |
| Storage type | 1x Full-size mSATA+2x2.5" SATAIII (J1900 only 1x2.5")             |  |
| RAID         | no  |  |
| TPM          | no  | Yes  |
| OS           | Windows 10 IoT / Linux  | Windows 10 IoT / Win11 / Linux                             |
| BIOS         | AMI Legacy  | AMI EFI 256Mbit  |
| GPU          | Intel HD graphic  | Intel Iris Xe graphics, up to 4096x2160 @60Hz              |
| Power switch | Yes   |  |
| ETH          | 2x RTL8111H GBE   | J6412(1x88E1512, 2xi211), iCore(1xi219-lm, 2xi211)         |
| COM          | 2xisolated RS-232/422/485 with auto flow control, 4xRS-232 extend |  |
| USB          | 1xUSB3.0, 3xUSB2.0  | 4xUSB3.2   |
| Video        | 1xHDMI,1xVGA  | 2xHDMI   |
| Power (V DC) | 12~26VDC(2pin)  |  |
| GPIO         | no  | 8 Programmable DIO   |
| miniPCIe     | 1xminiPCIe  |  |
| PCIe         | no  |  |
| PCI          | no  |  |
| M.2          | no  | 1xM.2 2230B key + 1xM.2 2280 M key with nano SIM           |
| SIM slot     | Yes (via miniPCIe)  | Yes (via M.2 extension)                                    |
| Antenna      | 5 holes for antenna   |  |
| Audio        | no  | Realtek ALC662, High Defination Audio, Line-out            |



|                      |                                  |            |
|----------------------|----------------------------------|------------|
| Heating system       | Self-cooling (Fanless)           |            |
| Status light         | 1xpower, 1xSSD,1xCPU temperature |            |
| Working Temp. (°C)   | 0 ... + 60 °C                    |            |
| Storage Temp. (°C)   | -40 ... + 85 °C                  |            |
| Humidity             | <95% (non-condensation)          |            |
| House cover          | Aluminum+SPCC                    |            |
| Protection           | IP20                             |            |
| Installation         | Wall-mount / DIN rail / VESA     |            |
| Consumption (W)      | 10/25w                           | 28/46w     |
| External(W/H/L) (mm) | 40x150x215                       | 54x150x215 |
| Net weight (Kg)      | 0,7                              | 1,2        |
| Certification        | CE                               |            |

| LUMIA ROCK2  |   |          |                 |
|--------------|---|----------|-----------------|
| CPU          | Celeron J6412   | i3-10110 | i3/i5/i7-11x5Gx |
| Memory       | 4G, 8G, 16G, 32G DDR4 2400/2133MHz                      |          |                 |
| Storage      | HDD: 500G,1TB, 2TB / SSD: 128GB, 256GB, 512GB, 1TB, 2TB |          |                 |
| Storage type | 1x2.5" SATA HDD(RAID0/1) / 1xM.2 SSD                    |          |                 |
| RAID         | no  | RAID0/1  | no              |
| TPM          | TPM2.0  |          |                 |
| O.S.         | Windows 10 IoT / Win11 / Linux                          |          |                 |
| BIOS         | AMI UEFI  |          |                 |



|                    |                         |                          |                        |
|--------------------|-------------------------|--------------------------|------------------------|
| GPU                | Intel® UHD Graphics 620 | Intel Iris(R)Xe Graphics | Intel(R) UHD Graphics  |
| Power switch       | Yes (front)             |                          |                        |
| ETH                | 3x Intel i225-V 2.5G    | 4x Intel i210-AT/i211-AT | 3x Intel i225-V 2.5G   |
| Series ports       | 1xRS232/485 (DB9)       | 2xRS232or485 (2pin)      | 6xRS232or485 (DB9)     |
| USB                | 4xUSB3.1+2USB2.0        | 6xUSB3.0                 | 4xUSB3.0+2USB2.0       |
| Video              | 1xHDMI+2xDP             | 1xHDMI                   | 1xHDMI+1xDP            |
| Power supply (vDC) | 12VDC(Jack)             | 12VDC(2pin)              | 9~24VDC(2pin)          |
| GPIO               | /                       |                          | 16DIO                  |
| miniPCle           | /                       | 1xminiPCle               |                        |
| PCle               | /                       | /                        | /                      |
| PCI                | /                       | /                        | /                      |
| M.2                | 3xM.2 (3052+2230+2280)  | 1xM.2 2280               | 3xM.2 (2280+3042+3052) |
| SIM slot           | 1xSIM slot external     |                          | 1xSIM slot inner       |
| Antenna            | 2xWi-Fi antenna         |                          | 4xWi-Fi antenna        |
| Audio              | 1x audio (in/out)       |                          | 1xinput+1xoutput       |
| Cooling            | Heatsink                | Heatsink+Fan             |                        |
| Status light       | 1xPower                 |                          |                        |



|                      |                               |            |            |
|----------------------|-------------------------------|------------|------------|
| Operating Temp. (°C) | -20 ... + 50 °C               |            |            |
| Storage Temp. (°C)   | -40 ... + 85 °C               |            |            |
| Humidity             | <95% (non-condensation)       |            |            |
| Cases material       | Aluminum                      |            |            |
| Protection           | IP20                          |            |            |
| Installation         | VESA(75x75&100x100), DIN rail |            |            |
| Consumption(W)       | 25W                           | 30/45W     | 30/60W     |
| Size (W/H/L) (mm)    | 150x126.5x45                  | 135x134x48 | 230x152x68 |
| Net weight (Kg)      | 0,9                           | 0,85       | 2,4        |
| Certification        | CE                            |            |            |

|              | <b>LUMIA ROCK3</b>                           |              |              |
|--------------|--|--------------|--------------|
| Type         | Fundation                                    | 1xPCI+1xPCIe | 2xPCI+2xPCIe |
| CPU          | i3-9100T/i5-9500T/i7-9700T                   |              |              |
| Chipset      | Intel Q170                                   |              |              |
| Memory       | 4G, 8G, 16G, 32G DDR4 2400/2133MHz           |              |              |
| Storage      | SSD: 128GB, 256GB, 512GB, 1TB                |              |              |
| Storage type | 1x mSATA+2x2.5" SATA HDD(RAID0/1)            |              |              |
| RAID         | RAID0/1 when 2.5" SATA                       |              |              |
| TPM          | TPM2.0 optional                              |              |              |
| O.S.         | Windows 10 IoT / Win11 / Linux               |              |              |
| BIOS         | AMI EFI                                      |              |              |
| GPU          | Integrated Intel HD Graphics 530             |              |              |
| Power switch | Yes (Front)                                  |              |              |
| ETH          | 2x Intel i211-AT + 1x i219-LM (support vPro) |              |              |
| Series ports | 6xRS232 or 485 or 422 (DB9)                  |              |              |
| USB          | 8xUSB3.0                                     |              |              |
| Video        | 1xHDMI+1xDP+1xVGA                            |              |              |



|                      |                              |              |                    |
|----------------------|------------------------------|--------------|--------------------|
| Power supply (vDC)   | 9~36VDC(4pin)                |              |                    |
| GPIO                 | /                            |              |                    |
| miniPCle             | 2xminiPCle                   |              |                    |
| PCle                 | /                            | 1xPCleX16    | 1xPCleX16+1xPCleX4 |
| PCI                  | /                            | 1xPCI        | 2xPCI              |
| M.2                  | /                            | /            | /                  |
| SIM slot             | 1xSIM slot on board internal |              |                    |
| Antenna              | 2xWi-Fi antenna              |              |                    |
| Audio                | 1xinput+1xoutput             |              |                    |
| Cooling              | Fanless                      | Heatsink+Fan |                    |
| Status light         | 1xPower                      |              |                    |
| Operating Temp. (°C) | -20 ... + 50 °C              |              |                    |
| Storage Temp. (°C)   | -40 ... + 85 °C              |              |                    |
| Humidity             | <95% (non-condensation)      |              |                    |
| Cases material       | Aluminum+SPCC                |              |                    |
| Protection           | IP20                         |              |                    |
| Installation         | Wall mount                   |              |                    |
| Consumption(W)       | 35/65W                       | 35/75W       | 35/80W             |
| Size (W/H/L) (mm)    | 210x240x83.5                 | 210x240x138  | 210x240x173        |
| Net weight (Kg)      | 3                            | 3,5          | 5                  |
| Certification        | CE                           |              |                    |