| Item | Specification |
|---|---|
| Resolution | Recommended resolution: 1280x800 or above<br>Optimal resolutions: 1920x1080, 1366x768, 1280x1024 and 1280x800 |
| Graphic Card | DirectX9 compatible graphic adapter |
| Installation Media | Via CD-ROM drive |

## 2.9. General

### 2.9.1. Power Requirements

Power is supplied to the controller and I/O modules through the power input terminals on the controller IOTA and the left end plate, (when used). The relevant specifications at each power input terminals are detailed below.

| Model Number / Description / Item | SC-UCMX02<br>Non Redundant Controller with onboard IOM | SC-UCNN11<br>Redundant Controller | SC-TEPL01<br>Left End Plate |
|---|---|---|---|
| Rated input voltage | 24 VDC ± 25% | 24 VDC ± 25% | 24 VDC ± 25% |
| Input voltage range | 18 to 30 VDC | 18 to 30 VDC | 18 to 30 VDC |
| Maximum ripple voltage | 120 mVpp | 120 mVpp | 120 mVpp |
| Maximum rated input current | 1.20 A at 30 VDC<br>(controller plus 9 IOMs) | 1.30 A at 30 VDC<br>(Redundant controllers plus 9 IOMs) | 1.02 A at 30 VDC<br>(9 IOMs) |

### 2.9.2. Power Consumption

The tables below are provided for the purpose of sizing power systems. Three different scenarios are provided with each having various controller options configured. Select the scenario most suited and interpolate values when required.

These tables only include power consumption data of the listed modules and do not include power consumption of any connected instruments, (transmitters, valves etc.), even if that power is provided through the I/O module terminals. Allow for instrument power consumption separately in your power system sizing calculations along with other components to be powered by the system, (e.g., network radio).

| Model Number | Minimum Power Consumption where there are no expansion IOMs | Maximum Power Consumption where there are no expansion IOMs | Maximum Power Consumption where there are expansion IOMs |
|---|---|---|---|
| SC-UCMX02 | 1.7 W [2] | 2.9 W [3] | 3.4 W [4] |
| SC-UCNN11 | 5.76 W [5] | 6.72 W [6] | 6.96 W [7] |



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| Model Number | Minimum Power Consumption where there are no expansion IOMs | Maximum Power Consumption where there are no expansion IOMs | Maximum Power Consumption where there are expansion IOMs |
|---|---|---|---|

Note 1 – All values exclude power consumption of any connected instruments.

Note 2 – Input voltage 24Vdc; All I/O channels active; no serial ports active; Ethernet port 2 active; Ethernet ports 1 and 3 not active.

Note 3 – Input voltage 24Vdc; All I/O channels active; 4 serial ports active; Ethernet ports 1 and 2 active; Ethernet port 3 not active.

Note 4 – Input voltage 24Vdc; All I/O channels active; 4 serial ports active; Ethernet ports 1, 2 and 3 actives; Does not include expansion IOMs.

Note 5 – Input voltage 24Vdc; no serial ports active; Ethernet port 1 active; Ethernet ports 2, 3, 4 and 5 not active.

Note 6 – Input voltage 24Vdc; 4 serial ports active; Ethernet ports 1, 2, 3 and 4 active; Ethernet port 5 not active.

Note 7 – Input voltage 24Vdc; 4 serial ports active; Ethernet ports 1, 2, 3, 4 and 5 active; Does not include expansion IOMs.

**Other hardware**

| Model Number | Specification |
|---|---|
| SC-UMIX01 | 2.0 W |
| SC-TEPR01 | 0.0 W |
| SC-TEPL01 | 0.0 W |

Note 1 – All values exclude power consumption of any connected instruments.

Note 2 – Input voltage 24Vdc; All I/O channels active;

### 2.9.3. Physical and Environment

**Dimensions and Weight**

| Model Number | Specification | |
|---|---|---|
| | Dimensions (mm) L x W x H | Weight (g) |
| SC-UCMX02 | 190 x 99 x141 | 700 |
| SC-UCNN11 | 190 x170 x141 | 1000 |
| SC-UMIX01 | 190 x 99 x141 | 680 |
| SC-TEPR01 | 190 x 39 x 16 | 140 |
| SC-TEPL01 | 190 x 39 x16 | 140 |

**Other**

Unless specified separately, all ControlEdge RTU hardware meets the following common specifications.



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#### 3.1.1. ControlEdge 2020 Platform

| Model Number | Description |
|---|---|
| SC-UCMX02 [1] | Non-redundant Controller with 28 mixed onboard I/O with 256MB DRAM |
| SC-UCNN11 [2] | Redundant Controller |
| SC-UMIX01 [3] | Mixed I/O Module, 28 channels |
| SC-TEPR01 | Expansion End Plate, Right |
| SC-TEPL01 | Expansion End Plate, Left |

Note 1 – Includes a complete Controller: CPM and IOTA
Note 2 – Includes a complete Controller: 2 x CPM and 1 x IOTA
Note 3 – Includes a complete IOM: IOM and IOTA

#### 3.1.2. Series C Foundation Fieldbus Module

| Model Number | Description |
|---|---|
| CC-PFB402 | Series C Foundation Fieldbus Interface Module with 4 H1 Links (FIM4) |
| CC-TFB402 | Series C FIM4 IOTA, Non-redundant, 4 Links, coated |

### 3.2. Software Licenses

#### 3.2.1. Controller Resident

| Model Number | Description |
|---|---|
| SP-IHARTP [1] | HART Protocol Enabler License |
| SP-MRUN01 [2] | Meter Run License, one (1) |
| SP-IWIO01 [3] | Wireless I/O License |
| SP-LEPIU1 [4] | ELEPIU License per controller |

Note 1 – HART enabler license required for each I/O module (onboard or expansion) where HART digital access is required
Note 2 – Required per meter run per RTU for electronic flow meter functionality. Maximum meter runs supported per non redundant controller is 4 and redundant controller is 12.
If an RTU has 4 meter runs then 4 x SP-MRUN01 are required.
Note3 - Wireless I/O license is required for each controller where ISA100 devices need to be connected and accessed.
Note 4 - ELEPIU license is required per controller using ELEPIU solution.



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