

# SoftPLC Web Studio HMIs SSH Series PC Touch Panel Systems

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| Features  |
|---|
| Variety of LCD screen sizes   |
| Bright display, suitable for sunlight ( <i>high-bright option for some models</i> ) |
| Resistive touchscreen ( <i>option for capacitive w/ anti-scratch surface</i> )      |
| Industrial Panel PC, Fanless and Low Power  |
| Options to add/increase communication ports, memory, storage                        |
| Wide range DC 9-36VDC power input   |
| Choice of Operating System  |



**SSHC- and SSHI- 5x / 7x / 10x**



**SSHC- and SSHI- 12x / 15x / 17x / 19x / 21x**

Standard models are equipped with user selected operating system, a 16/32GB SSD, and a user selected Web Studio runtime softkey license (*optional USB hardkey can be ordered separately*). For options such as Capacitive Touchscreen, more memory/storage, etc. contact SoftPLC Corp for ordering/pricing information.

| ORDERING INFORMATION  |                                   |    |          |                           |    |                  |           |
|---|-----------------------------------|----|----------|---------------------------|----|------------------|-----------|
| Specify model by Catalog Numer: <b>SSH</b> <CPU>-<Screen Size>-<O/S>-<Runtime Capacity>                         |                                   |    |          |                           |    |                  |           |
| <i>Example: SSHC-10XLP is a 10.1" Celeron w/ Windows Embedded O/S with 300 tags capacity Web Studio Runtime</i> |                                   |    |          |                           |    |                  |           |
| SCREEN SIZE   |                                   |    |          |                           |    |                  |           |
| 5   | 7                                 | 10 | 12       | 15                        | 17 | 19               | 21        |
| CPU   |                                   |    | O/S      |                           |    | RUNTIME CAPACITY |           |
| <b>C</b>  | Intel Celeron N2930, 1.83GHz      |    | <b>X</b> | Windows 10 IoT LTSC Entry |    | <b>LT</b>        | 150 tags  |
| <b>I</b>  | Intel 4 <sup>th</sup> Gen Core i3 |    | <b>W</b> | Windows 10 Professional   |    | <b>LP</b>        | 300 tags  |
|   |                                   |    |          |                           |    | <b>15</b>        | 1500 tags |
|   |                                   |    |          |                           |    | <b>4K</b>        | 4000 tags |

| SPECIFICATIONS FOR SSHC-x UNITS     |   |   |   |   |
|-------------------------------------|---|---|---|---|
| Model                               | SSHC-7  | SSHC-10                                       | SSHC-12                                       | SSHC-15                                       |
| <b>Display</b>                      |   |   |   |   |
| <b>TFT/LCD Display Size</b>         | 7"  | 10.1"   | 12.1"   | 15"   |
| <b>Max. Resolution</b>              | 800 x 480   | 1280 x 800                                    | 800 x 600                                     | 1024 x 768                                    |
| <b>Max. Colors</b>                  | 262K  | 16.2M (*16.7M)                                | 16.2M   | 16.7M (*16.2M)                                |
| <b>Luminance (cd/m<sup>2</sup>)</b> | 350   |   | 450   |   |
| <b>Viewing Angle (degrees)</b>      | 140/110   | 160/160                                       | 160/140                                       | 160/140                                       |
| <b>Contrast Ratio</b>               | 400:1   | 800:1   |   |   |
| <b>Backlight Lifetime Hours</b>     | 40K   | 40K   | 50K   | 30K   |
| <b>Resistive Touchscreen</b>        | Type USB, Light Transmission over 80%   |   |   |   |
| <b>Capacitive Touchscreen</b>       | <i>(option)</i> Type USB, Light Transmission over 90%   |   |   |   |
| <b>Mechanical</b>                   |   |   |   |   |
| <b>Construction</b>                 | Aluminium front bezel and chassis, NEMA 4/4X IP66 Front Panel   |   |   |   |
| <b>Mounting</b>                     | Panel, VESA 75x75   | Panel, VESA 100 x 100                         |   |   |
| <b>Dimensions WxHxD<br/>mm / in</b> | 202 x 149 x 40 mm<br>7.95 x 5.87 x 1.57 in  | 285 x 189 x 48.9 mm<br>11.22 x 7.44 x 1.93 in | 319 x 245 x 51.7 mm<br>12.56 x 9.65 x 2.04 in | 410 x 310 x 54.6 mm<br>16.14 x 12.2 x 2.15 in |
| <b>Cutout Size WxH<br/>mm / in</b>  | 192 x 138 mm<br>7.56 x 5.43 in  | 272 x 176 mm<br>10.71 x 6.93 in               | 303 x 229 mm<br>11.93 x 9.02 in               | 392 x 292 mm<br>15.43 x 11.5 in               |
| <b>Net Weight</b>                   | 1.2 Kg (*1.1Kg)   | 1.9 Kg (*2 Kg)                                | 2.8 Kg (*2.9 Kg)                              | 4.4 Kg (*4.5 Kg)                              |
| <b>Power Consumption</b>            | 14.1W (*11W)  | 14.6 W (*19.2W)                               | 19.5W (*22.1W)                                | 17.8W (*28.7W)                                |
| <b>Power Input</b>                  | 9~36 V DC, 5 A, 3 pin terminal block; 2 pin power on/off; power supply included   |   |   |   |
| <b>System</b>                       |   |   |   |   |
| <b>CPU</b>                          | Intel Celeron N2930 1.83GHz Quad Core Processor   |   |   |   |
| <b>System Memory</b>                | 4GB DDR RAM (up to 8GB)   |   |   |   |
| <b>External I/O Ports</b>           | 2 x GB Ethernet RJ-45; 2 x USB 3.0 type A, USB4/5, 1 x Audio Out<br>2 x DB9 Serial Ports (COM1: RS-232/485/422, COM2: RS-232) |   |   |   |
| <b>Storage</b>                      | 16GB SSD <i>(option for up to 64GB)</i>   |   |   |   |
| <b>Expansion Slots</b>              | SD card (up to 32GB), Internal Mini-PCIe full size  |   |   |   |
| <b>OS Support</b>                   | Windows Embedded Standard 7 <i>(option for WinCE, Windows Professional)</i>   |   |   |   |
| <b>Environmental</b>                |   |   |   |   |
| <b>Temperature</b>                  | Operating: 0-50°C (32°F-122°F); Storage: -20-60°C (-4°F-140°F)  |   |   |   |
| <b>Relative Humidity</b>            | 10 to 90% @ 40°C, non-condensing  |   |   |   |
| <b>Certifications</b>               | CE / FCC Class A, RoHS compliant  |   |   |   |

| SPECIFICATIONS FOR SSHC-x UNITS (cont'd) |   |  |  |
|--|---|--|--|
| Model                                    | SSHC-17   | SSHC-19  | SSHC-21  |
| <b>Display</b>                           |   |  |  |
| TFT/LCD Display Size                     | 17"   | 19"  | 21.5"  |
| Max. Resolution                          | 1280 x 1024   |  | 1920 x 1080                                    |
| Max. Colors                              | 16.2M (*16.7M)  | 16.7M  |  |
| Luminance (cd/m <sup>2</sup> )           | 350   |  | 250  |
| Viewing Angle (degrees)                  | 170/160   |  | 178/178  |
| Contrast Ratio                           | 1000:1  |  | 3000:1   |
| Backlight Lifetime Hours                 | 30K (*50K)  | 50K  | 30K  |
| Resistive Touchscreen                    | Type USB, Light Transmission over 80%   |  |  |
| Capacitive Touchscreen                   | (option) Type USB, Light Transmission over 90%  |  |  |
| <b>Mechanical</b>                        |   |  |  |
| Construction                             | Aluminium front bezel and chassis, NEMA 4/4X IP66 Front Panel   |  |  |
| Mounting                                 | Panel, VESA 100 x 100   |  |  |
| Dimensions WxHxD<br>mm / in              | 439 x 348 x 64.8 mm<br>17.28 x 13.7 x 2.55 in   | 468 x 380 x 64.8 mm<br>18.43 x 14.96 x 2.55 in | 557 x 362 x 64.8 mm<br>21.93 x 14.25 x 2.55 in |
| Cutout Size WxH<br>mm / in               | 422 x 331 mm<br>16.61 x 13.03 in  | 450 x 362 mm<br>17.72 x 14.25 in               | 539 x 344 mm<br>21.22 x 13.54 in               |
| Net Weight                               | 6Kg   | 5.9 Kg   | 7.5 Kg   |
| Power Consumption                        | 22.1W   | 29.5 W   | 26.6 W   |
| Power Input                              | 9~36 V DC, 5 A, 3 pin terminal block; 2 pin power on/off; power supply included   |  |  |
| <b>System</b>                            |   |  |  |
| CPU                                      | Intel Celeron N2930 1.83GHz Quad Core Processor   |  |  |
| System Memory                            | 4GB DDR RAM (up to 8GB)   |  |  |
| External I/O Ports                       | 2 x GB Ethernet RJ-45; 2 x USB 3.0 type A, USB4/5, 1 x Audio Out<br>2 x DB9 Serial Ports (COM1: RS-232/485/422, COM2: RS-232) |  |  |
| Storage                                  | 16GB SSD (option for up to 64GB)  |  |  |
| Expansion Slots                          | SD card (up to 32GB), Internal Mini-PCIe full size  |  |  |
| OS Support                               | Windows Embedded Standard 7 (option for WinCE, Windows Professional)  |  |  |
| <b>Environmental</b>                     |   |  |  |
| Temperature                              | Operating: 0-50°C (32°F-122°F); Storage: -20-60°C (-4°F-140°F)  |  |  |
| Relative Humidity                        | 10 to 90% @ 40°C, non-condensing  |  |  |
| Certifications                           | CE / FCC Class A, RoHS compliant  |  |  |

| SPECIFICATIONS FOR SSHI-x UNITS     |   |   |  |  |
|-------------------------------------|---|---|--|--|
| Model                               | SSHI-15   | SSHI-17                                       | SSHI-19  | SSHI-21  |
| <b>Display</b>                      |   |   |  |  |
| <b>TFT/LCD Display Size</b>         | 15"   | 17"   | 19"  | 21.5"  |
| <b>Max. Resolution</b>              | 1024 x 768  | 1280 x 1024                                   |  | 1920x1080                                      |
| <b>Max. Colors</b>                  | 16.7M   | 16.2M   | 16.7M  |  |
| <b>Luminance (cd/m<sup>2</sup>)</b> | 450 (*1000)   | 350 (*1000)                                   |  | 250 (*1000)                                    |
| <b>Viewing Angle (degrees)</b>      | 160/140   | 170/160                                       | 170/165  | 178/178  |
| <b>Contrast Ratio</b>               | 800:1   | 1000:1  |  | 3000:1   |
| <b>Backlight Lifetime Hours</b>     | 60K (*30K)  | 30K   | 50K  | 30K  |
| <b>Resistive Touchscreen</b>        | Type USB, Light Transmission over 80%   |   |  |  |
| <b>Capacitive Touchscreen</b>       | <i>(option)</i> Type USB, Light Transmission over 90%   |   |  |  |
| <b>Mechanical</b>                   |   |   |  |  |
| <b>Construction</b>                 | Aluminium front bezel and chassis, NEMA 4/4X IP66 Front Panel   |   |  |  |
| <b>Mounting</b>                     | Panel, VESA 100 x 100   |   |  |  |
| <b>Dimensions WxHxD<br/>mm / in</b> | 410 x 310 x 54.6 mm<br>16.14 x 12.2 x 2.15 in   | 439 x 348 x 64.8 mm<br>17.28 x 13.7 x 2.55 in | 468 x 380 x 64.8 mm<br>18.43 x 14.96 x 2.55 in | 557 x 362 x 64.8 mm<br>21.93 x 14.25 x 2.55 in |
| <b>Cutout Size WxH<br/>mm / in</b>  | 392 x 292 mm<br>15.43 x 11.5 in   | 422 x 331 mm<br>16.61 x 13.03 in              | 450 x 362 mm<br>17.72 x 14.25 in               | 539 x 344 mm<br>21.22 x 13.54 in               |
| <b>Net Weight</b>                   | 4.4 Kg  | 6.1 Kg  | 5.9.8 Kg                                       | 7.5 Kg   |
| <b>Power Consumption</b>            | 29.4W   | 29.8W   | 36.4 W   | 33.3W  |
| <b>Power Input</b>                  | 9~36 V DC, 5 A, 3 pin terminal block; 2 pin power on/off; power supply included   |   |  |  |
| <b>System</b>                       |   |   |  |  |
| <b>CPU</b>                          | Intel 4 <sup>th</sup> Generation Core i3 <i>(option for i5)</i>   |   |  |  |
| <b>System Memory</b>                | 4GB DDR RAM (up to 8GB)   |   |  |  |
| <b>External I/O Ports</b>           | 2 x GB Ethernet RJ-45; 2 x USB 3.0 type A, USB4/5, 1 x Audio Out<br>2 x DB9 Serial Ports (COM1: RS-232/485/422, COM2: RS-232) |   |  |  |
| <b>Storage</b>                      | 16GB SSD <i>(option for up to 64GB)</i>   |   |  |  |
| <b>Expansion Slots</b>              | SD card (up to 32GB), Internal Mini-PCIe full size  |   |  |  |
| <b>OS Support</b>                   | Windows 7 Professional <i>(option for WinCE, Windows Embedded Standard)</i>   |   |  |  |
| <b>Environmental</b>                |   |   |  |  |
| <b>Temperature</b>                  | Operating: 0-50°C (32°F-122°F); Storage: -20-60°C (-4°F-140°F)  |   |  |  |
| <b>Relative Humidity</b>            | 10 to 90% @ 40°C, non-condensing  |   |  |  |
| <b>Certifications</b>               | CE / FCC Class A, RoHS compliant  |   |  |  |

\* High Bright Version *(option)*