

670 N. McCarthy Blvd.  
Milpitas, CA 95035  
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SPECIFICATIONS  
Touchcomputer  
PRODUCT SPECIFICATIONS, i-series 3.0  
with Google™ Play Services

DOCUMENT: PS600376  
REV: A1  
REV DATE: Dec 14, 2018  
Page 1 of 6

**TITLE: PRODUCT SPECIFICATIONS, i-series 2.0 with Google Play Services**

**NUMBER: PS600376**

**REVISION: A2**

**OWNER: Engineering**

| <b>Change History</b> |        |              |   |
|-----------------------|--------|--------------|---|
| Rev                   | Author | Date         | Description   |
| A                     |        | Asela E      | Initial release per CO-18                                 |
| A1                    |        | Asela/Yvonne | Update:<br>Remove EU SKU's<br>Remove Camera details       |
| A2                    |        | Asela        | Update:<br>Change North America to US/Canada<br>OS naming |

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Page 2 of 6

| Model   | i-series 2.0  |                           |                            |
|---|---|---------------------------|----------------------------|
| Size (In) (mm)  | 10.1<br>256.54  | 15.6<br>396.24            | 21.5<br>546.10             |
| Processor   | Qualcomm Snapdragon APQ8053<br>2.0GHz Octa-Core Processor   |                           |                            |
| Memory (RAM)  | 3GB for Standard Versions DDR3L<br>2GB for Value Version DDR3L  |                           |                            |
| Storage (emmc 5.1)<br><small><sup>2</sup>GB equals one billion bytes when referring to storage capacity. Accessible capacity may be less.</small> | 32GB SSD for Standard versions<br>16GB SSD for Value versions   |                           |                            |
| IO Ports  | <u>Standard</u><br>Micro HDMI output<br>Micro SD slot<br>Ethernet 1x LAN (Gigabit)<br>GPIO<br>1x USB 3.0 support (900mA)                                  |                           |                            |
|   | <u>Value</u><br>Ethernet 1x LAN (Gigabit)<br>1x USB 3.0 support (900mA)<br>Micro SD slot<br>GPIO  |                           |                            |
| Number of Touches   | Up to 10  |                           |                            |
| Wireless  | 802.11b/g/n/ac + Bluetooth 4.1  |                           |                            |
| Peripherals Mounting (all micro-USB port are 2.0 ports and support 500mA)   | 4x micro-USB side peripheral ports available for the standard version<br>Peripheral mounting is not available on the value SKU's                          |                           |                            |
| Speakers  | 2x2W Stereo internal speakers   |                           |                            |
| Audio   | Standard version has a built-in microphone<br>External microphone and headphone support are available via an optional the USB adaptor (Vantech NBA-120U). |                           |                            |
| Operating System Options  | Android 8.1™ Oreo™ with EloView content deployment and management   |                           |                            |
| Aspect Ratio  | 16:10   | 16:9                      | 16:9                       |
| Panel Active Display Area (mm) (in)   | 217 x 136<br>8.54 x 5.34  | 344 x 194<br>13.55 x 7.62 | 476 x 268<br>18.74 x 10.54 |
| Native (optimal) Resolution   | 1280 x 800 @ 60Hz   | 1920 x 1080 @ 60Hz        |                            |

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Page 3 of 6

|  |  |                             |                             |                              |
|--|--|-----------------------------|-----------------------------|------------------------------|
| <b>Brightness (typical)</b>              |  | <b>Std:</b>                 | <b>Val:</b>                 |                              |
| <b>LCD Panel</b>                         | <b>400</b>   | <b>300</b>                  | <b>220</b>                  | <b>250</b>                   |
| <b>With TouchScreen</b>                  | <b>344</b>   | <b>258</b>                  | <b>189</b>                  | <b>215</b>                   |
| <b>Number of Colors</b>                  | <b>8-bit (16.7M)</b>   | <b>6-bit (262K)</b>         | <b>6-bit (262k)</b>         | <b>6-bit (Hi-FRC; 16.7M)</b> |
| <b>Response Time (Tr + Tf) (typical)</b> | <b>25 ms</b>   | <b>Std:</b><br><b>30 ms</b> | <b>Val:</b><br><b>12 ms</b> | <b>14 ms</b>                 |
| <b>Viewing Angle (typical)</b>           |  | <b>Std:</b>                 | <b>Val:</b>                 |                              |
| <b>Horizontal</b>                        | <b>± 85°</b>   | <b>± 85°</b>                | <b>± 45°</b>                | <b>± 89°</b>                 |
| <b>Vertical</b>                          | <b>± 85°</b>   | <b>± 85°</b>                | <b>20° and 40°</b>          | <b>± 89°</b>                 |
| <b>Contrast Ratio (typical)</b>          | <b>800</b>   | <b>Std:</b><br><b>800</b>   | <b>Val:</b><br><b>500</b>   | <b>1000</b>                  |
| <b>Available Touch Technologies</b>      | <b>Touch Pro Film (Pro-F)</b>  |                             |                             |                              |
| <b>Power Input</b>                       | <b>AC input voltage: 100-240 VAC</b><br><b>Input frequency: 50-60 Hz</b>                                     |                             |                             |                              |
| <b>Power Consumption (watts)</b>         |  |                             |                             |                              |
| <b>Typical</b>                           |  |                             |                             |                              |
| <b>On</b>                                | <b>10.2</b>  | <b>13</b>                   |                             | <b>16</b>                    |
| <b>Off</b>                               | <b>0.4</b>   | <b>0.4</b>                  |                             | <b>0.5</b>                   |
| <b>Sleep (Idle Mode)</b>                 | <b>5.0</b>   | <b>4.5</b>                  |                             | <b>4.0</b>                   |
| <b>Power Over Ethernet (PoE)</b>         | <b>Supported via Elo PoE Device PN: E615169</b><br><b>Reference the I-Series 2.0 user guide for details.</b> |                             |                             |                              |
| <b>Maximum System Dimensions</b>         |  |                             |                             |                              |
| <b>(W x H x D) mm</b>                    | <b>255 x 181 x 25</b>  | <b>387 x 248 x 28</b>       |                             | <b>524 x 324 x 35</b>        |
| <b>(W x H x D) in</b>                    | <b>10.06 x 7.13 x 0.99</b>   | <b>15.23 x 9.77 x 1.11</b>  |                             | <b>20.63 x 12.75 x 1.39</b>  |
| <b>Shipping Box Dimensions</b>           |  |                             |                             |                              |
| <b>(W x H x D) mm</b>                    | <b>330 x 250 x 140</b>   | <b>150 x 300 x 470</b>      |                             | <b>180 x 400 x 600</b>       |
| <b>(W x H x D) in</b>                    | <b>12.99 x 9.84 x 5.51</b>   | <b>5.90 x 11.81 x 18.50</b> |                             | <b>7.08 x 15.75 x 23.62</b>  |
| <b>Weight</b>                            |  |                             |                             |                              |
| <b>Kgs</b>                               | <b>0.88</b>  | <b>1.59</b>                 |                             | <b>4.30</b>                  |
| <b>Lbs</b>                               | <b>1.94</b>  | <b>3.50</b>                 |                             | <b>9.47</b>                  |
| <b>Shipping Weight</b>                   |  |                             |                             |                              |
| <b>Kgs</b>                               | <b>2.07</b>  | <b>3.27</b>                 |                             | <b>7.30</b>                  |
| <b>Lbs</b>                               | <b>4.56</b>  | <b>7.20</b>                 |                             | <b>16.10</b>                 |
| <b>Temperature</b>                       | <b>Operating: 0°C to 40°C (32°F to 104°F)</b><br><b>Storage: -20°C to 50°C (-4°F to 122°F)</b>               |                             |                             |                              |
| <b>Humidity (non-condensing)</b>         | <b>Operating: 20% to 80%</b><br><b>Storage: 5% to 95%</b>  |                             |                             |                              |

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 REV: A1  
 REV DATE: Dec 14, 2018  
 Page 4 of 6

|  |  |   |                    |
|--|--|---|--------------------|
| <b>Regulatory approvals and declarations (Google CTS versions)</b> | UL/cUL (US)<br>FCC (US)<br>IC (Canada)<br>CE (Europe)<br>CB (International)  |   |                    |
| <b>Mounting Options</b>  | VESA 75mm x 75mm   | VESA 75mm x 75mm<br><br>and<br><br>VESA 100mm x 100mm | VESA 100mm x 100mm |
| <b>Enclosure Color</b>   | Black  |   |                    |
| <b>Real-Time Clock</b>   | Lithium coin cell battery for real time clock  |   |                    |
| <b>Sealing</b>   | Touchscreen sealed to LCD  |   |                    |
| <b>Power Cables (included in accessory box)</b>                    | North American<br>European   |   |                    |
| <b>What's in the box</b>   | I-Series<br>North American Power Cable<br>European Power Cable<br>1x Power Brick (E153026)<br>Quick Install Guide<br>Screws for cable cover door (located in the power/Ethernet bay) |   |                    |
| <b>Warranty</b>  | 2-year standard warranty   |   |                    |
| <b>Extended Warranty</b>   | 1-year: E445932<br><br>2-year:<br>10-inch: E966980<br>15-inch: E446123<br>22-inch: E967470<br><br>3-year:<br>10-inch: E967170<br>15-inch: E446308<br>22-inch: E967781                |   |                    |

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DOCUMENT: PS600376  
REV: A1  
REV DATE: Dec 14, 2018  
Page 5 of 6

**Part Numbers:**

| Family                     | Elo P/N | Part Description       | Color | Memory | Storage | Availability    |
|----------------------------|---------|------------------------|-------|--------|---------|-----------------|
| With Google™ Play Services | E461790 | ESY10I1-2UWB-0-AO-GY-G | Black | 3GB    | 32GB    | North America** |
|                            | E461993 | ESY10I1-2UWC-0-AO-GY-G |       | 2GB    | 16GB    | North America** |
|                            | E462193 | ESY15I1-2UWB-0-AO-GY-G |       | 3GB    | 32GB    | North America** |
|                            | E462384 | ESY15I1-2UWC-0-AO-GY-G |       | 2GB    | 16GB    | North America** |
|                            | E462589 | ESY22I1-2UWB-0-AO-GY-G |       | 3GB    | 32GB    | North America** |

\*\*North America: United States, Canada

**Optional Accessories**

| Elo P/N | Part Description                         | Contents<br>(works with all sizes unless specified)                       |
|---------|--|---|
| E001002 | KIT,MSR,USB, ESY X Series/AAiO/02 Series | MSR kit   |
| E001004 | KIT,NFC,USB, ESY X Series/AAiO/02 Series | NFC kit   |
| E093433 | KIT,BCR,USB, AAiO/02 Series              | BCR kit (1D)  |
| E926356 | ELO-KIT, 2DBCR, USB, N3680               | BCR kit (2D)  |
| E211544 | KIT, GPIO Cables for AAiO                | Black GPIO Cable  |
| E048069 | ELO-KIT-FLOOR STAND 5 FOOT-R             | Pole Mount Kit  |
| E160104 | ELO-STAND-10.1IN-GY-R                    | 10.1 Stand Kit  |
| E044162 | ELO-STAND-15.6IN-GY-R                    | 15.6 Stand Kit  |
| E044356 | ELO-STAND-21.5IN-GY-R                    | 21.5 Stand Kit  |
| E043382 | ELO-SHELFMNT-R                           | Shelf Mount Kit   |
| E412240 | KIT,EXPANSION MODULE,ESY I-Series        | Expansion Module Kit for 15.6 and 21.5 only                               |
| E923781 | KIT, EXP MODULE LONG CABLE, I-SERIES     | Expansion Module Kit for 15.6 and 21.5 only                               |
| E924077 | ELO-STAND-FLIP DESIGN-10I/15I/1502/1002  | Flip Stand Kit for 10.1 and 15.6 only                                     |
| E200465 | KIT-EMV-INGENICO ICMP CRADLE-I/M         | EMV Cradle for 15.6 and 21.5<br>10.1 (landscape only)                     |
| E201088 | KIT-EMV-VERIFONE E355 CRADLE-I/M         | EMV Cradle for 15.6 and 21.5<br>10.1 (landscape only)                     |
| E200788 | KIT-EMV-INGENICO ICMP CRADLE-X/IDS02     | EMV Cradle for 10.1 (portrait only)                                       |
| E201363 | KIT-EMV-VERIFONE E355 CRADLE-X/IDS02     | EMV Cradle for 10.1 (portrait only)                                       |
| E353950 | ELO-mPOS PRINTER STAND-I-SERIES-BK       | Printer stand (black) for 10.1 and 15.6                                   |
| E353758 | ELO-mPOS PRINTER STAND-I-SERIES-WH       | Printer stand (white) for 10.1 and 15.6                                   |
| E047458 | ELO-KIT-BOLT DOWN 6 INCH-R               | 6in bolt down kit   |
| E047663 | ELO-KIT-BOLT DOWN 12 INCH-R              | 12in bolt down kit  |
| E047864 | ELO-KIT-BOLT DOWN 18 INCH-R              | 18in bolt down kit  |
| E802400 | KIT, WALLMOUNT, ESY I-Series 2.0         | Low profile wallmount kit (not compatible when the PoE is installed)      |
| E615169 | ELO-KIT-POE-ADAPTER                      | POE module kit  |
| E143088 | KIT, WALL MOUNT, ESYxx EX-Series         | Will work with PoE  |
| E514304 | KIT, REPLACEMENT CABLE, I-SERIES 2.0     | 1x NA power cable<br>1x EU power cable<br>1x power brick for i-series 2.0 |
| E001001 | KIT,FPR,USB,ESY X-Series                 | Fingerprint reader  |

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REV DATE: Dec 14, 2018  
Page 6 of 6

## Documentation List

| Document Number | Description  |
|-----------------|--|
| MS601903        | DIMENSIONAL DRAWING, 10in AAiO_2                   |
| MS601904        | DIMENSIONAL DRAWING, 15in AAiO_2                   |
| MS601905        | DIMENSIONAL DRAWING, 22in AAiO_2                   |
| QIG600031       | QIG, i-series 2.0                                  |
| UM600273        | USER GUIDE, Android I-Series 3.0 with CTS          |
| UM600285        | USER GUIDE, Android I-Series 3.0 with CTS, FRENCH  |
| UM600286        | USER GUIDE, Android I-Series 3.0 with CTS, GERMAN  |
| UM600287        | USER GUIDE, Android I-Series 3.0 with CTS, ITALIAN |
| UM600288        | USER GUIDE, Android I-Series 3.0 with CTS, SPANISH |

**MTBF (Mean Time Between Failures)** An MTBF measurement is based on a statistical sample and is not intended to predict any one specific unit's reliability; thus MTBF is not, and should not be construed as, a warranty measurement.

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