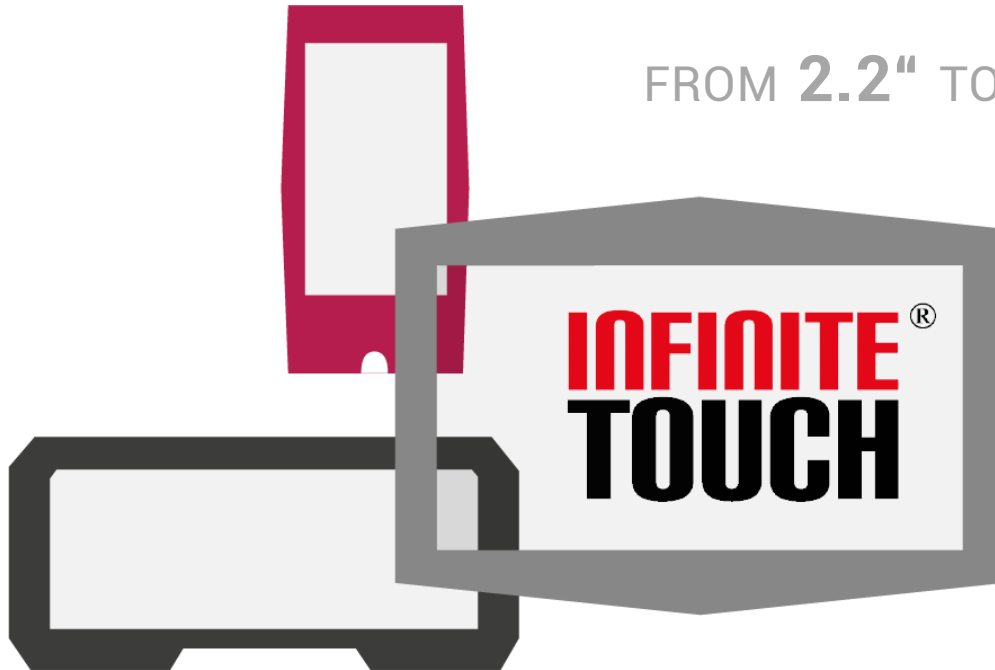
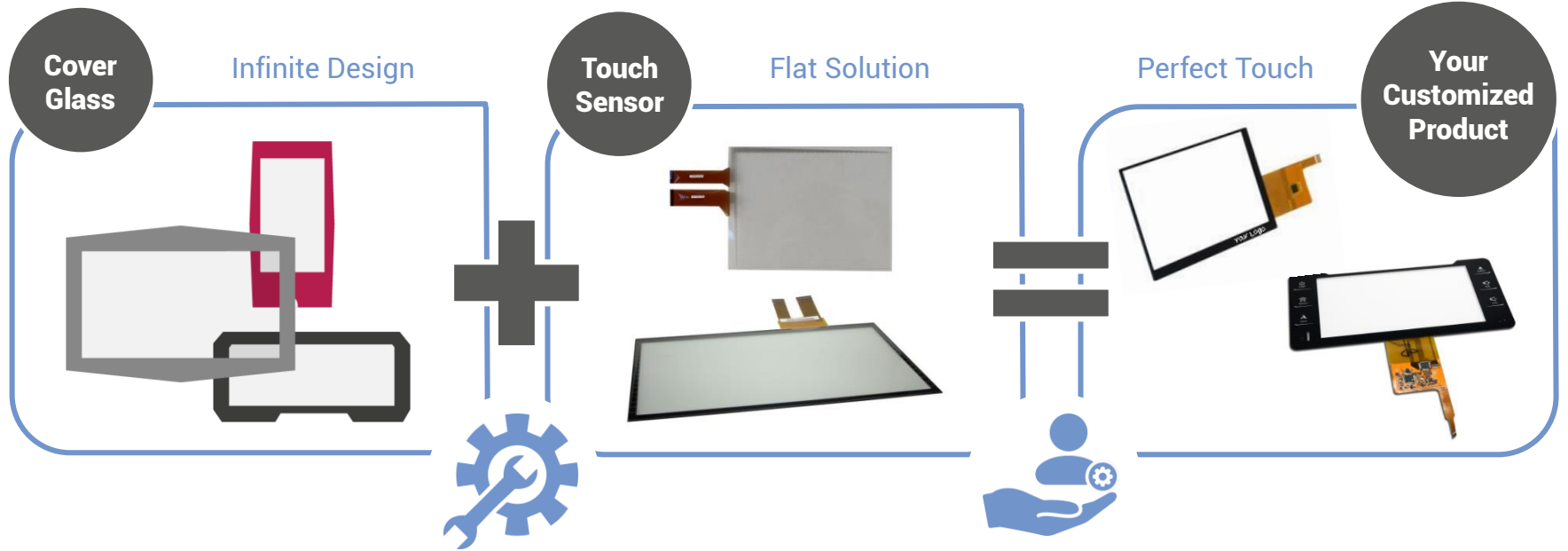


INFINITE FREEDOM OF TOUCH DESIGN

FROM 2.2" TO 75"



INFINITE TOUCH DESIGN



INFINITE TOUCH DESIGN **TRUE FLAT**

True Flat Design for Projected Capacitive Touch:



Standard sizes⁽¹⁾

5" to 32"



Project based sizes⁽²⁾

2.2" to 75"



Samples glass strength⁽¹⁾

1.1 to 4 mm



Project based glass strength⁽²⁾

up to 15 mm

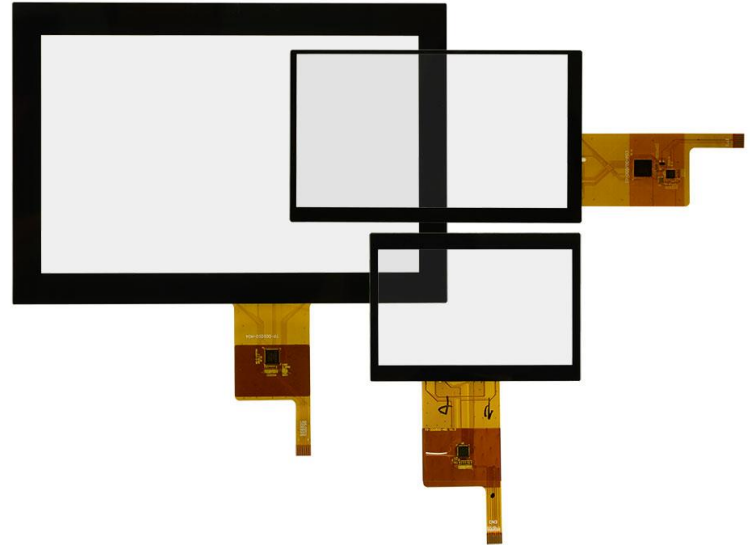
⁽¹⁾ With immediate availability for samples.

⁽²⁾ On request.

INFINITE TOUCH DESIGN **TRUE FLAT PCAP**

Distec PCAP sensors:

- ✓ PCAP: Sensorfoil for low overall height and low weight
- ✓ Up to 10 touchpoints (depends on cover glass thickness)
- ✓ Chip on board / Chip on flex
- ✓ Interfaces: USB (HID), RS232, I2C
- ✓ Supported OS: Windows, Linux, Android, Mac, QNX
- ✓ Glove usage or palm recognition (on request)
- ✓ Detection of water / blood / salt water (on request)
- ✓ Tape bonding or optical bonding: **VACUBOND®**



INFINITE TOUCH DESIGN **INDIVIDUAL DESIGN**

Individual Cover Glass Design:

- ✓ Size _____ Custom
- ✓ Design _____ Infinite
- ✓ Floatglass _____ Chemically or thermally toughened
- ✓ Surface _____ AG (anti-glare)
AR (anti-reflection)
AF (anti-finger-print)
- ✓ Print _____ organic, digital, ceramic (therm. tough. only),
opaque/lightproof, single/multicolor for customer
logo, buttons, passe-partout, ...
- ✓ Edges _____ ground, faceted, c-cut, polished, ...
- ✓ Other glass _____ laminated safety glass, Xensation, Gorilla,
antibacterial glass, UV blocker, ...
- ✓ Tape bonding or optical bonding _____ **VACUBOND®**



INFINITE TOUCH DESIGN 5" WIDE SENSOR FOIL

| 5"w | TO-09-112 TF-DD0500-A06 |
|--|--|
| Touch dimensions | 129.18 x 72 mm |
| Active area | 111.40 x 63.4 mm |
| Tail length, position | 94.37 mm, left (standard) / right |
| Operating temperature Storage temperature | -20°C to 70°C / -04°F to 158°F -30°C to 80°C / -22°F to 176°F |
| Cover glass | Up to 3 mm |
| Touchpoints | 2 (up to 10) |
| Chip on flex | EETI EXC80H60 / Datasheet |
| Interfaces | I2C |
| Sensor | ITO-Film (incl. OCA ⁽³⁾) |
| Supported OS | Windows, Android, Linux, Chrome, Mac, QNX |
| TFT Displays ⁽¹⁾ | Ortustech COM50H5N01ULC |

⁽¹⁾ TFT Displays with perfect mechanic correlation to sensor foil. In general our sensor foils are corresponding with any other TFT.

⁽³⁾ Optical Clear Adhesive: preassembled glue for lamination of sensor foil to cover glass.

INFINITE TOUCH DESIGN 7" WIDE SENSOR FOIL

| 7"w | <u>TO-09-018</u> TF-DD0700-A02 | <u>TO-09-021R1.1</u> TF-DD0700-B03 |
|-----------------------------|---|--|
| Touch dimensions | 164 x 103 mm | 164 x 103 mm |
| Active area | 154 x 93 mm | 154 x 93 mm |
| Tail length, position | 91.87 mm, right (bottom) / left (top) | 91.87 mm, right (bottom) / left (top) |
| Operating temperature | -30°C to 70°C / -22°F to 158°F | -30°C to 70°C / -22°F to 158°F |
| Storage temperature | -30°C to 80°C / -22°F to 176°F | -30°C to 80°C / -22°F to 176°F |
| Cover glass | Up to 3 mm | Up to 3 mm |
| Touchpoints | 5 | 10 |
| Chip on flex | Goodix GT911 / Datasheet | Ilitek ILI2301S+ILIM2VDS / Datasheets: 1 2 |
| Interfaces | I2C | USB (HID) |
| Sensor | ITO-Film (incl. OCA ⁽³⁾) | ITO-Film (incl. OCA ⁽³⁾) |
| Supported OS | Windows, Android, Linux | Windows, Android, Linux ⁽²⁾ |
| TFT Displays ⁽¹⁾ | Innolux G070Y2-L01 • LG LB070WV8-SL01 • Kyocera TCG070WVLQGPNN-AN40 Mitsubishi AA070MC01 / AA070MC11 / AA070ME01 / AA070ME11 | |

⁽¹⁾ TFT Displays with perfect mechanic correlation to sensor foil. In general our sensor foils are corresponding with any other TFT.

⁽²⁾ Standard USB/HID driver implemented from Linux Kernel 3.3 and above.

⁽³⁾ Optical Clear Adhesive: preassembled glue for lamination of sensor foil to cover glass.

INFINITE TOUCH DESIGN 7" WIDE SENSOR FOIL

| 7"w | <u>TO-09-034</u> TF-DD0700-A09 | <u>TO-09-032</u> TF-DD0700-A08 |
|-----------------------------|---|--|
| Touch dimensions | 162.2 x 107.8 mm | 162.2 x 107.8 mm |
| Active area | 151.39 x 95.2 mm | 151.39 x 95.2 mm |
| Tail length, position | 92.76 mm, right (bottom) / left (top) | 92.76 mm, right (bottom) / left (top) |
| Operating temperature | -30°C to 70°C / -22°F to 158°F | -30°C to 70°C / -22°F to 158°F |
| Storage temperature | -30°C to 80°C / -22°F to 176°F | -30°C to 80°C / -22°F to 176°F |
| Cover glass | Up to 3 mm | Up to 4 mm |
| Touchpoints | 5 | 10 |
| Chip on flex | Goodix GT911 / Datasheet | Ilitek ILI2301S+ILIM2VDS / Datasheets: 1 2 |
| Interfaces | I2C | USB (HID) |
| Sensor | ITO-Film (incl. OCA ⁽³⁾) | ITO-Film (incl. OCA ⁽³⁾) |
| Supported OS | Windows, Android, Linux | Windows, Android, Linux ⁽²⁾ |
| TFT Displays ⁽¹⁾ | Ampire AM-1280800P2TZQW-00H / AM-1280800P3TZQW-00H / AM-1280800P3TZQW-10H | |

⁽¹⁾ TFT Displays with perfect mechanic correlation to sensor foil. In general our sensor foils are corresponding with any other TFT.

⁽²⁾ Standard USB/HID driver implemented from Linux Kernel 3.3 and above.

⁽³⁾ Optical Clear Adhesive: preassembled glue for lamination of sensor foil to cover glass.

INFINITE TOUCH DESIGN 10" WIDE SENSOR FOIL

| 10"w | TO-09-053 TF-DD1000-A00 |
|--|--|
| Touch dimensions | 231.52 x 140.23 mm |
| Active area | 222.52 x 126.13 mm |
| Tail length, position | 95.2 mm, top (right) / bottom (left) |
| Operating temperature Storage temperature | -30°C to 70°C / -22°F to 158°F -30°C to 80°C / -22°F to 176°F |
| Cover glass | Up to 5 mm |
| Touchpoints | 10 |
| Chip on flex | Ilitek ILI2511 / Datasheet |
| Interfaces | USB (HID) |
| Sensor | ITO-Film (incl. OCA ⁽³⁾) |
| Supported OS | Windows, Android, Linux ⁽²⁾ |
| TFT Displays ⁽¹⁾ | Panasonic VVX10F087J00 |

⁽¹⁾ TFT Displays with perfect mechanic correlation to sensor foil. In general our sensor foils are corresponding with any other TFT.

⁽²⁾ Standard USB/HID driver implemented from Linux Kernel 3.3 and above.

⁽³⁾ Optical Clear Adhesive: preassembled glue for lamination of sensor foil to cover glass.

INFINITE TOUCH DESIGN 10.1" WIDE SENSOR FOIL

| 10.1"w | TO-09-029 TF-DD1010-A04 |
|-----------------------------|--|
| Touch dimensions | 250 x 173 mm |
| Active area | 218 x 136.80 mm |
| Tail length, position | 88.18 mm, bottom (right) / top (left) |
| Operating temperature | -30°C to 70°C / -22°F to 158°F |
| Storage temperature | -30°C to 80°C / -22°F to 176°F |
| Cover glass | Up to 3 mm |
| Touchpoints | Up to 10 |
| Chip on flex | GT9271 / Datasheet |
| Interfaces | I2C |
| Sensor | ITO-Film (incl. OCA ⁽³⁾) |
| Supported OS | Windows, Android, Linux |
| TFT Displays ⁽¹⁾ | Amoled AL101WXL02-N • Tianma TM101JDHG30-00 • NLT NL12880AC16-01D • AUO G101EVN01.0 / G101EVN1.3 |

⁽¹⁾ TFT Displays with nearly perfect mechanic correlation to sensor foil. In general our sensor foils are corresponding with any other TFT.

⁽³⁾ Optical Clear Adhesive: preassembled glue for lamination of sensor foil to cover glass.

INFINITE TOUCH DESIGN 10.1" WIDE SENSOR FOIL

| 10.1"w | TO-09-050R1.1 TF-DD1010-D05 |
|-----------------------------|---|
| Touch dimensions | 230 x 154.51 mm |
| Active area | 219 x 137.80 mm |
| Tail length, position | 94.12 mm, top (middle) / bottom (middle) |
| Operating temperature | -30°C to 70°C / -22°F to 158°F |
| Storage temperature | -30°C to 80°C / -22°F to 176°F |
| Cover glass | Up to 5 mm |
| Touchpoints | 10 |
| Chip on flex | Ilitek ILI2511 / Datasheet |
| Interfaces | USB (HID) |
| Sensor | ITO-Film (incl. OCA ⁽³⁾) |
| Supported OS | Windows, Android, Linux ⁽²⁾ |
| TFT Displays ⁽¹⁾ | Amoled AL101WXL02-N • Tianma TM101JDHG30-00 • NLT NL12880AC16-01D • AUO G101EVN01.0 / G101EVN1.3 |

⁽¹⁾ TFT Displays with perfect mechanic correlation to sensor foil. In general our sensor foils are corresponding with any other TFT.

⁽²⁾ Standard USB/HID driver implemented from Linux Kernel 3.3 and above.

⁽³⁾ Optical Clear Adhesive: preassembled glue for lamination of sensor foil to cover glass.

INFINITE TOUCH DESIGN 10.4" SENSOR FOIL

| 10.4" | TO-09-066 TF-DD1040-A06 |
|-----------------------------|--|
| Touch dimensions | 224 x 175.30 mm |
| Active area | 213.04 x 160.43 mm |
| Tail length, position | 90.78 mm, top (left) / bottom (right) |
| Operating temperature | -30°C to 70°C / -22°F to 158°F |
| Storage temperature | -30°C to 85°C / -22°F to 185°F |
| Cover glass | Up to 5 mm |
| Touchpoints | 10 |
| Chip on flex | Ilitek ILI2511 / Datasheet |
| Interfaces | I2C / USB (HID) |
| Sensor | ITO-Film (incl. OCA ⁽³⁾) |
| Supported OS | Windows, Android, Linux ⁽²⁾ |
| TFT Displays ⁽¹⁾ | Innolux G104X1-L03, G104X1-L04 • Mitsubishi AA104XD12, AA104XG12, AA104XD02 • Kyocera TCG104XGLPAPNN-AN30 • NLT NL102476BC20-18 • AUO G104XVN01.0 |

⁽¹⁾ TFT Displays with perfect mechanic correlation to sensor foil. In general our sensor foils are corresponding with any other TFT.

⁽²⁾ Standard USB/HID driver implemented from Linux Kernel 3.3.

⁽³⁾ Optical Clear Adhesive: preassembled glue for lamination of sensor foil to cover glass.

INFINITE TOUCH DESIGN 10.4" SENSOR FOIL

| 10.4" | <u>TO-12-501</u> |
|--|--|
| Touch dimensions | 224.15 x 174.97 mm |
| Active area | 212.45 x 159.65 mm |
| Tail length, position | 91.79 mm, bottom (right) / top (left) |
| Operating temperature Storage temperature | -25°C to 70°C / -13°F to 158°F -30°C to 80°C / -22°F to 176°F |
| Cover glass | Up to 4 mm |
| Touchpoints | 10 |
| Chip on board | SW3718 / Datasheet |
| Interfaces | I2C / USB (HID) |
| Sensor | AG nano wire film (incl. OCA ⁽³⁾) |
| Supported OS | Windows, Linux, Mac |
| TFT Displays ⁽¹⁾ | Innolux G104X1-L03, G104X1-L04 • Mitsubishi AA104XD12, AA104XG12, AA104XD02 • Kyocera TCG104XGLPAPNN-AN30 • NLT NL102476BC20-18 • AUO G104XVN01.0 |

⁽¹⁾ TFT Displays with perfect mechanic correlation to sensor foil. In general our sensor foils are corresponding with any other TFT.

⁽³⁾ Optical Clear Adhesive: preassembled glue for lamination of sensor foil to cover glass.

INFINITE TOUCH DESIGN 11.6" WIDE SENSOR FOIL

| 11.6" | <u>TO-09-056</u> TF-DD1160-A00 |
|-----------------------------|---|
| Touch dimensions | 270.1 x 160.41 mm |
| Active area | 258.3 x 146.2 mm |
| Tail length, position | 95.19 mm, top (right) / bottom (left) |
| Operating temperature | -30°C to 70°C / -22°F to 158°F |
| Storage temperature | -30°C to 80°C / -22°F to 176°F |
| Cover glass | Up to 5 mm |
| Touchpoints | 10 |
| Chip on board | Ilitek ILI2511 / Datasheet |
| Interfaces | USB (HID) |
| Sensor | ITO-Film (incl. OCA ⁽³⁾) |
| Supported OS | Windows, Android, Linux ⁽²⁾ |
| TFT Displays ⁽¹⁾ | Panasonic VVX12F045J00 • NLT NL192108AC13-02D |

⁽¹⁾ TFT Displays with perfect mechanic correlation to sensor foil. In general our sensor foils are corresponding with any other TFT.

⁽²⁾ Standard USB/HID driver implemented from Linux Kernel 3.3 and above.

⁽³⁾ Optical Clear Adhesive: preassembled glue for lamination of sensor foil to cover glass.

INFINITE TOUCH DESIGN 12.1" SENSOR FOIL

| 12.1" | <u>TO-18-501</u> |
|--|--|
| Touch dimensions | 268.56 x 202.34 mm |
| Active area | 247.87 x 186.40 mm |
| Tail length, position | 92 mm, left (upper middle) / right (lower middle) |
| Operating temperature Storage temperature | -25°C to 70°C / -13°F to 158°F -30°C to 80°C / -22°F to 176°F |
| Cover glass | Up to 10 mm |
| Touchpoints ⁽²⁾ | 10 |
| Chip on board | EXC3000+EX5982+EX5418 / Datasheet |
| Interfaces | I2C / USB (HID) / RS232 |
| Sensor | ITO coated film (incl. OCA ⁽³⁾) |
| Supported OS | Windows, Linux, Mac, QNX |
| TFT Displays ⁽¹⁾ | Innolux G121X1-L03, G121S1-L02 • Mitsubishi AA121XK01, AA121XL01 • Kyocera TCG121XGLPAPNN-AN20 • NLT NL10276BC24-21 |

⁽¹⁾ TFT Displays with perfect mechanic correlation to sensor foil. In general our sensor foils are corresponding with any other TFT.

⁽²⁾ Touchpoints may reduced due to cover glass thickness.

⁽³⁾ Optical Clear Adhesive: preassembled glue for lamination of sensor foil to cover glass.

INFINITE TOUCH DESIGN 12.1" WIDE SENSOR GLASS

| 12.1"w | TO-09-022 TF-DD1210-A00 |
|-----------------------------|--|
| Touch dimensions | 285.5 x 187.5 mm |
| Active area | 266 x 168 mm |
| Tail length, position | 197.7 mm, left (upper middle) / right (lower middle). (Tail length 120mm on request) |
| Operating temperature | -25°C to 70°C / -13°F to 158°F |
| Storage temperature | -30°C to 80°C / -22°F to 176°F |
| Cover glass | Up to 10 mm |
| Touchpoints ⁽²⁾ | 10 |
| Chip on board | EXC3000+EX5962+EX5418 / Datasheet |
| Interfaces | I2C / USB (HID) / RS232 |
| Sensor | ITO-Film on 0.7mm glass |
| Supported OS | Windows, Linux, Mac, QNX |
| TFT Displays ⁽¹⁾ | Innolux G121I1-L01 • Mitsubishi AA121TD01 • SGD GKVGC1MNDK2A0 • AUO G121EAN01.0 |

⁽¹⁾ TFT Displays with perfect mechanic correlation to sensor foil. In general our sensor foils are corresponding with any other TFT.

⁽²⁾ Touchpoints may reduced due to cover glass thickness.

INFINITE TOUCH DESIGN 12.5" WIDE SENSOR FOIL

| 12.5"w | TO-12-508 TF-DD1210-A01 |
|--|---|
| Touch dimensions | 275 x 179.7 mm |
| Active area | 265.12 x 167.2 mm |
| Tail length, position | 84.75 mm, left (bottom) / right (top) |
| Operating temperature Storage temperature | -25°C to 70°C / -13°F to 158°F -30°C to 80°C / -22°F to 176°F |
| Cover glass | Up to 10 mm |
| Touchpoints ⁽²⁾ | 10 |
| Chip on board | EXC3000+EX5982+EX5418 / Datasheet |
| Interfaces | I2C / USB (HID) / RS232 |
| Sensor | AG nano wire film (incl. OCA ⁽³⁾) |
| Supported OS | Windows, Linux, Mac, QNX |
| TFT Displays ⁽¹⁾ | Innolux G121I1-L01 • Mitsubishi AA121TD01 • SGD GKVGC1MNDK2A0 • AUO G121EAN01.0 |

⁽¹⁾ TFT Displays with perfect mechanic correlation to sensor foil. In general our sensor foils are corresponding with any other TFT.

⁽²⁾ Touchpoints may reduced due to cover glass thickness.

⁽³⁾ Optical Clear Adhesive: preassembled glue for lamination of sensor foil to cover glass.

INFINITE TOUCH DESIGN 12.5" WIDE SENSOR GLASS

| 12.5"w | TO-09-048 TF-DD1250-A01 |
|-----------------------------|--|
| Touch dimensions | 289 x 171.65 mm |
| Active area | 280 x 159.04 mm |
| Tail length, position | 101.66 mm, top (right) / bottom (left) |
| Operating temperature | -30°C to 70°C / -22°F to 158°F |
| Storage temperature | -30°C to 80°C / -22°F to 176°F |
| Cover glass | Up to 3 mm |
| Touchpoints | 10 |
| Chip on flex | Ilitek ILI2301S+ILIM2VDS / Datasheets: 1 2 |
| Interfaces | USB (HID) |
| Sensor | ITO-Film on 0.7mm glass |
| Supported OS | Windows, Android, Linux ⁽²⁾ |
| TFT Displays ⁽¹⁾ | LG LP125WF2-SPB2 |

⁽¹⁾ TFT Displays with perfect mechanic correlation to sensor foil. In general our sensor foils are corresponding with any other TFT.

⁽²⁾ Standard USB/HID driver implemented from Linux Kernel 3.3 and above.

INFINITE TOUCH DESIGN 13.3" SENSOR FOIL

| 13.3" | <u>TO-18-508</u> |
|--|--|
| Touch dimensions | 309.30 x 183.98 mm |
| Active area | 296.76 x 168.24 mm |
| Tail length, position | 92.08 mm, bottom (left) / top (right) |
| Operating temperature Storage temperature | -25°C to 70°C / -13°F to 158°F -30°C to 80°C / -22°F to 176°F |
| Cover glass | Up to 10 mm |
| Touchpoints ⁽²⁾ | 10 |
| Chip on board | EXC3000+EX5982+EX5418 / Datasheet |
| Interfaces | I2C / USB (HID) / RS232 |
| Sensor | ITO coated film (incl. OCA ⁽³⁾) |
| Supported OS | Windows, Linux, Mac, QNX |
| TFT Displays ⁽¹⁾ | AUO G133HAN01.0 |

⁽¹⁾ TFT Displays with perfect mechanic correlation to sensor foil. In general our sensor foils are corresponding with any other TFT.

⁽²⁾ Touchpoints may reduced due to cover glass thickness.

⁽³⁾ Optical Clear Adhesive: preassembled glue for lamination of sensor foil to cover glass.

INFINITE TOUCH DESIGN 15" SENSOR FOIL

| 15" | <u>TO-18-504</u> |
|--|--|
| Touch dimensions | 326.50 x 258.10 mm ⁽⁴⁾ |
| Active area | 304.13 x 228.1 mm |
| Tail length, position | 90.04 mm, bottom (middle) / top (middle) |
| Operating temperature Storage temperature | -25°C to 70°C / -13°F to 158°F -30°C to 80°C / -22°F to 176°F |
| Cover glass | Up to 10 mm |
| Touchpoints ⁽²⁾ | 10 |
| Chip on board | EXC3000+EX5962+EX5418 / Datasheet |
| Interfaces | I2C / USB (HID) / RS232 |
| Sensor | ITO coated film (incl. OCA ⁽³⁾) |
| Supported OS | Windows, Linux, Mac, QNX |
| TFT Displays ⁽¹⁾ | Innolux G150XGE-L04, R150XJE-L01 • AUO G150XTN05.0, G150XTN05.1 • Mitsubishi AA150XT01 / AA150PD03 / AA150PD13 • NLT NL10276AC30-42C |

⁽¹⁾ TFT Displays with perfect mechanic correlation to sensor foil. In general our sensor foils are corresponding with any other TFT.

⁽²⁾ Touchpoints may reduced due to cover glass thickness.

⁽³⁾ Optical Clear Adhesive: preassembled glue for lamination of sensor foil to cover glass.

⁽⁴⁾ Touch outline dimension differs slightly from outline dimensions of TFT's above.

INFINITE TOUCH DESIGN 15.6" SENSOR FOIL

| 15.6" | <u>TO-18-505</u> |
|-----------------------------|--|
| Touch dimensions | 363.13 x 216.49 mm |
| Active area | 346.2 x 195.5 mm |
| Tail length, position | 90.05 mm, bottom (left) / top (right) |
| Operating temperature | -25°C to 70°C / -13°F to 158°F |
| Storage temperature | -30°C to 80°C / -22°F to 176°F |
| Cover glass | Up to 10 mm |
| Touchpoints ⁽²⁾ | 10 |
| Chip on board | EXC3000+EX5982+EX5418 / Datasheet |
| Interfaces | I2C / USB (HID) / RS232 |
| Sensor | ITO coated film (incl. OCA ⁽³⁾) |
| Supported OS | Windows, Linux, Mac, QNX |
| TFT Displays ⁽¹⁾ | AUO G156XW01V1, G156HAN01.0 • LG LP156WF6-SPB1 • NLT NL192108AC18-02D • Sharp LQ156M3LW01 |

⁽¹⁾ TFT Displays with perfect mechanic correlation to sensor foil. In general our sensor foils are corresponding with any other TFT.

⁽²⁾ Touchpoints may reduced due to cover glass thickness.

⁽³⁾ Optical Clear Adhesive: preassembled glue for lamination of sensor foil to cover glass.

INFINITE TOUCH DESIGN 17" SENSOR FOIL

| 17" | TO-12-503 |
|--|--|
| Touch dimensions | 364.20 x 291.45 mm |
| Active area | 339.76 x 272.17 mm |
| Tail length, position | 91.79 mm, left (middle) / right (middle) |
| Operating temperature Storage temperature | -25°C to 70°C / -13°F to 158°F -30°C to 80°C / -22°F to 176°F |
| Cover glass | Up to 4 mm |
| Touchpoints | 10 |
| Chip on board | SW3718 / Datasheet |
| Interfaces | I2C / USB (HID) |
| Sensor | AG nano wire film (incl. OCA ⁽³⁾) |
| Supported OS | Windows, Linux, Mac |
| TFT Displays ⁽¹⁾ | LG LB170E01-SL01 • AUO G170EG01V1 |

⁽¹⁾ TFT Displays with perfect mechanic correlation to sensor foil. In general our sensor foils are corresponding with any other TFT.

⁽³⁾ Optical Clear Adhesive: preassembled glue for lamination of sensor foil to cover glass.

INFINITE TOUCH DESIGN 17.3" SENSOR FOIL

| 17.3" | <u>TO-18-507</u> |
|--|--|
| Touch dimensions | 403 x 240 mm |
| Active area | 381.89 x 214.81 mm |
| Tail length, position | 90.52 mm, bottom (left) / top (right) |
| Operating temperature Storage temperature | -25°C to 70°C / -13°F to 158°F -30°C to 80°C / -22°F to 176°F |
| Cover glass | Up to 10 mm |
| Touchpoints ⁽²⁾ | 10 |
| Chip on board | EXC3000+EX5982+EX5418 / Datasheet |
| Interfaces | I2C / USB (HID) / RS232 |
| Sensor | ITO coated film (incl. OCA ⁽³⁾) |
| Supported OS | Windows, Linux, Mac, QNX |
| TFT Displays ⁽¹⁾ | AUO G173HW01V0 |

⁽¹⁾ TFT Displays with perfect mechanic correlation to sensor foil. In general our sensor foils are corresponding with any other TFT.

⁽²⁾ Touchpoints may reduced due to cover glass thickness.

⁽³⁾ Optical Clear Adhesive: preassembled glue for lamination of sensor foil to cover glass.

INFINITE TOUCH DESIGN 19" SENSOR FOIL

| 19" | TO-12-504 |
|-----------------------------|---|
| Touch dimensions | 395 x 325 mm |
| Active area | 377.32 x 302.06 mm |
| Tail length, position | 91.79 mm, bottom (right) / top (left) |
| Operating temperature | -25°C to 70°C / -13°F to 158°F |
| Storage temperature | -30°C to 80°C / -22°F to 176°F |
| Cover glass | Up to 4 mm |
| Touchpoints | 10 |
| Chip on board | SW3718 / Datasheet |
| Interfaces | I2C / USB (HID) |
| Sensor | AG nano wire film (incl. OCA ⁽³⁾) |
| Supported OS | Windows, Linux, Mac |
| TFT Displays ⁽¹⁾ | Sharp LQ190E1LX75 • AUO G190EG01 V1 / G190ETN01.2 |

⁽¹⁾ TFT Displays with perfect mechanic correlation to sensor foil. In general our sensor foils are corresponding with any other TFT.

⁽³⁾ Optical Clear Adhesive: preassembled glue for lamination of sensor foil to cover glass.

INFINITE TOUCH DESIGN 21.5" SENSOR FOIL

| 21.5" | <u>TO-18-503</u> |
|--|--|
| Touch dimensions | 498.2 x 295.58 mm |
| Active area | 480 x 271.5 mm |
| Tail length, position | 90.42 mm, bottom (left) / top (right) |
| Operating temperature Storage temperature | -25°C to 70°C / -13°F to 158°F -30°C to 80°C / -22°F to 176°F |
| Cover glass | Up to 10 mm |
| Touchpoints ⁽²⁾ | 10 |
| Chip on board | EXC3000+EX5962+EX5418 / Datasheet |
| Interfaces | I2C / USB (HID) / RS232 |
| Sensor | ITO coated film (incl. OCA ⁽³⁾) |
| Supported OS | Windows, Linux, Mac, QNX |
| TFT Displays ⁽¹⁾ | AUO G215HVN01.0 • LG LM215WF3-SLC1 |

⁽¹⁾ TFT Displays with perfect mechanic correlation to sensor foil. In general our sensor foils are corresponding with any other TFT.

⁽²⁾ Touchpoints may reduced due to cover glass thickness.

⁽³⁾ Optical Clear Adhesive: preassembled glue for lamination of sensor foil to cover glass.

INFINITE TOUCH DESIGN 24" SENSOR FOIL

| 24" | TO-18-502 |
|--|--|
| Touch dimensions | 551.66 x 324.49 mm |
| Active area | 535.36 x 302.89 mm |
| Tail length, position | 90.35 mm, bottom (left) / top (right) |
| Operating temperature Storage temperature | -25°C to 70°C / -13°F to 158°F -30°C to 80°C / -22°F to 176°F |
| Cover glass | Up to 10 mm |
| Touchpoints ⁽²⁾ | 10 |
| Chip on board | EXC3000+EX5962+EX5418 / Datasheet |
| Interfaces | I2C / USB (HID) / RS232 |
| Sensor | ITO coated film (incl. OCA ⁽³⁾) |
| Supported OS | Windows, Linux, Mac, QNX |
| TFT Displays ⁽¹⁾ | AUO G240HW01V0 • Amoled AL240FHL01-N |

⁽¹⁾ TFT Displays with perfect mechanic correlation to sensor foil. In general our sensor foils are corresponding with any other TFT.

⁽²⁾ Touchpoints may reduced due to cover glass thickness.

⁽³⁾ Optical Clear Adhesive: preassembled glue for lamination of sensor foil to cover glass.

INFINITE TOUCH DESIGN 27" SENSOR FOIL

| 27" | <u>TO-12-505</u> |
|--|--|
| Touch dimensions | 630 x 371 mm |
| Active area | 597.6 x 336.15 mm |
| Tail length, position | 173.7 mm, bottom (middle) / top (middle) |
| Operating temperature Storage temperature | -25°C to 70°C / -13°F to 158°F -30°C to 80°C / -22°F to 176°F |
| Cover glass | Up to 10 mm |
| Touchpoints ⁽²⁾ | 10 |
| Chip on board | EXC3000+EX5962+EX5418 / Datasheet |
| Interfaces | I2C / USB (HID) / RS232 |
| Sensor | AG nano wire film (incl. OCA ⁽³⁾) |
| Supported OS | Windows, Linux, Mac, QNX |
| TFT Displays ⁽¹⁾ | AUO M270HVN02.1 |

⁽¹⁾ TFT Displays with perfect mechanic correlation to sensor foil. In general our sensor foils are corresponding with any other TFT.

⁽²⁾ Touchpoints may reduced due to cover glass thickness.

⁽³⁾ Optical Clear Adhesive: preassembled glue for lamination of sensor foil to cover glass.

INFINITE TOUCH DESIGN 32" SENSOR FOIL

| 32" | <u>TO-18-506</u> |
|--|--|
| Touch dimensions | 734.56 x 428.8 mm |
| Active area | 698.70 x 393.30 mm |
| Tail length, position | 89.74 mm, bottom (middle) / top (middle) |
| Operating temperature Storage temperature | -25°C to 70°C / -13°F to 158°F -30°C to 80°C / -22°F to 176°F |
| Cover glass | Up to 10 mm |
| Touchpoints ⁽²⁾ | 10 |
| Chip on board | EXC3000+EX5962+EX5418 / Datasheet |
| Interfaces | I2C / USB (HID) / RS232 |
| Sensor | ITO coated film (incl. OCA ⁽³⁾) |
| Supported OS | Windows, Linux, Mac, QNX |
| TFT Displays ⁽¹⁾ | AUO P320HVN02.0 / P320HVN02.1 |

⁽¹⁾ TFT Displays with perfect mechanic correlation to sensor foil. In general our sensor foils are corresponding with any other TFT.

⁽²⁾ Touchpoints may reduced due to cover glass thickness.

⁽³⁾ Optical Clear Adhesive: preassembled glue for lamination of sensor foil to cover glass.

INFINITE TOUCH DESIGN OVERVIEW VACUBOND®

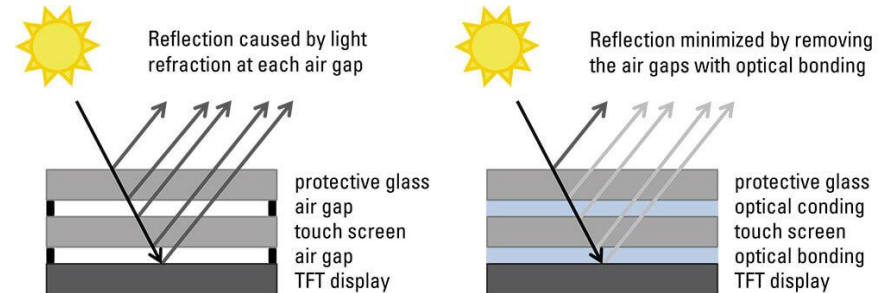
In close strategic and technical co-operation with the Japanese Taica - Group we developed the latest generation of optical bonding and assembly technology.

For supply security and for support of your risk management we installed the identical machines and processes in Germering/Munich, Germany as well as in Ronkonkoma/NY, USA.



Vacuum Bonding doesn't need:

- ✓ Drying process / curing time
- ✓ Dam construction as wet bonding
- ✓ Comprehensive "optical defect specification"
- ✓ Stable mechanical structure of TFT



INFINITE TOUCH DESIGN **ADVANTAGES VACUBOND®**

Advantages VacuBond®:

- ✓ Perfect contrast and readability in sunshine by eliminating the air gaps between TFT display and cover glass / touch
- ✓ No condensation / fogging in air-gap
- ✓ Reduced danger of splintering during glass breakage
- ✓ Improved shock absorption, more robust construction
- ✓ Improved heat transmission via front-glass (up to factor 8)
- ✓ Cost-efficient and reliable bonding of small and sensitive TFTs in the range of 2,4" to 7" and of TFTs up to 32"+ in general
- ✓ "free air exclusion" bonding: we fill free space inside of the TFT by bonding (ex-protection)
- ✓ We can directly bond into your front-panel
- ✓ High precision in production due to production jig and automated process
- ✓ Our process is reversible, we can re-bond e.g. for repair



VACUBOND®

INFINITE TOUCH DESIGN **ADVANTAGES ASSEMBLY WITH VACUBOND®**

Advantages Assembly with VacuBond®:

- ✓ Easy assembly of the fragile new generation TFT displays without metal housings
- ✓ Zero anomalies production (opaque, translucent) makes a cosmetic specification superfluous
- ✓ Assembly of protective glass of any thickness for increased ruggedness (drop ball tests, IEC60721-3-7 as well as MIL STD 810F passed with VacuBond)
- ✓ Assembly of touch screens of all common technologies: resistive, glass/glass, AMR, projected capacitive
- ✓ Assembly at room temperature in contrast to assembly in autoclaves, which may exceed the maximum specified temperature of the touch screen.



Modern 3,2" TFT display assembled in VacuBond technology with a protective glass



Same 3,2" TFT display without protective glass: the very small bezel and the fragile mechanics do not allow for tape assembly or wet bonding

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