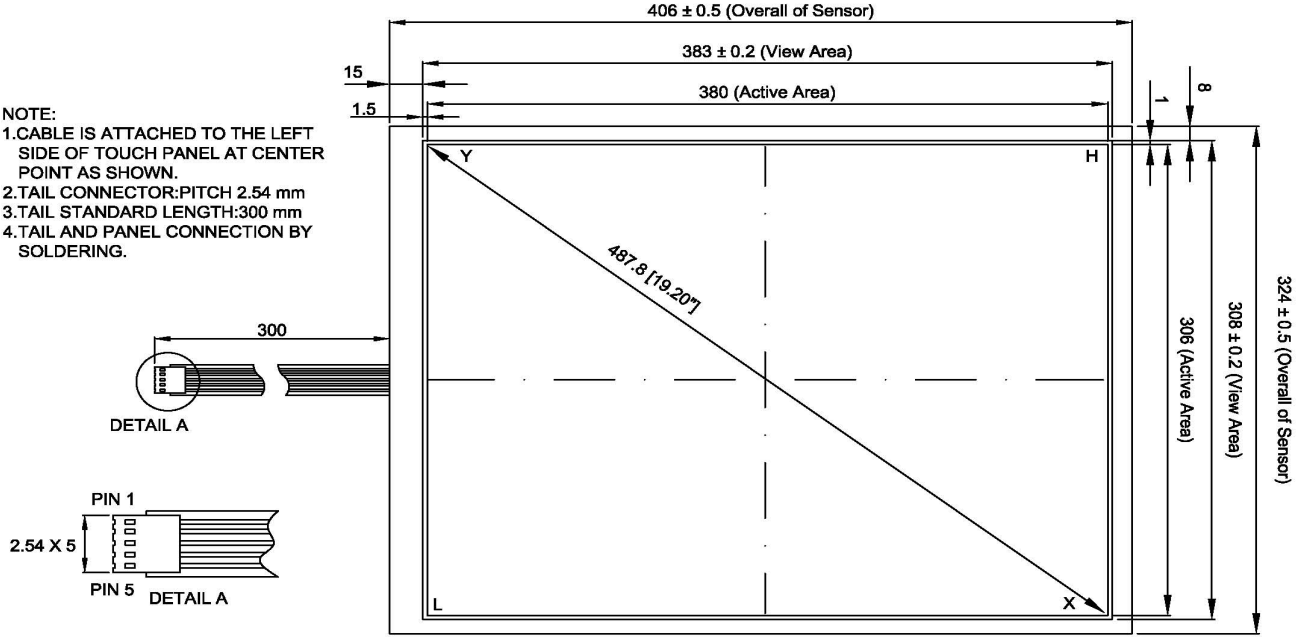
Panel PC - Rear Mount LCD - Open Frame LCD - Touchscreen Kit

19" Touchscreen Kit resistive 5-wire

Art.Nr.: **301.4519xx**

Mechanical Characteristics	
Activation force	Less than 40gr. Using by the silicone finger, hardness = 60° of diameter 16mm
Input Methods	Finger, glove hand, pen or stylus
Surface Hardness	Meets pencil hardness 3H (per ASTM D3363)
Position Accuracy (Linearity)	Less than 1%
Resolution	Based on controller resolution of 4096 x 4096
Cable	Type: F.C.C. (flat conductor cable) 300mm Connecting area with touch panel The tensile force: vertical to touch panel 2.0kg straight to touch panel 1.0kg Connecting type: 5 points soldering adding UV glue Cable fold: 10 time in 1R, 180 degrees Detail specification: ETC test, No.: ET.88T-12-102-C00
Connector	Five-position, 0.025inch (0.632mm square post receptacle with 2.54mm centers The times of insertions and withdrawals: at least 100 times.
Reliability	The following characteristics are generated by evaluating test samples after 2 hours leaving in the room condition when each of the reliability test finishes.
Storage Termperature-high	80°C for 240 hours (at ambient humidity)
Storage Temperature-low	-25°C for 240 hours
Thermal Shock	-20°C (1hr.) ~ 70°C (1hr.) 10 cycles
High Temp./Humidity Test	60°C/90%RH: 240hours
Operating Life 1: Hitting Key Test	250g, 1 activations / sec (By using Silicone finger) More than 35.00.000 time (By using Silicone finger)
Operating Life 2: Writing Test	250g, 4.5mm / sec. (By using polyester finger) More than 1.000.000 times (By using polyester finger)
Optical Performance	
Light Transmission	75~85% (typical value) (per ASTM D1003)

Environmental Conditions	
Size	19"
Glass Thickness	3mm
Operating Temperature	-20°C ~70°C
Operating Humidity	5% ~ 96%RH (no dew falls)
Storage Temperature	-25°C ~ 80°C
Storage Humidity	5% ~ 96% RH (no dew falls)
Water Spray	not damaged by running water applied to the active area
Vibration	Withstand 0.1 inches peak to peak excursion, at a frequency of 5 to 455 Hz, for a period of 15 minutes in each of three axes.
Chmical Resistiance	The touch panel active area of the touchscreen is resistant to the following chemicals when exposed for a period of one hour at 21"C: - Aceton - Ammonia-based glass cleaners - Common foods and beverages - Hexane - Isopropyl alcohol - Methylene chloride - Methyl ethyl ketone - Mineral spirits - Turpentine
Electrical Characteristics	
Supply Voltage	+5VDC, nominal
Contact Bounce	less than 10ms (input by finger)
Lead to Lead Resistance	40Ω ~ 100Ω (between X-Y) 50Ω ~ 10Ω (between X-LX) 50Ω ~ 10Ω (between Y-LX) 40Ω ~ 100Ω (between LX-LY)
Contact Bounce	Less than 10ms (input by finger)
Electrostatic Discharge Protection	Withstands 20 discharges of 15kV, distributed randomly across the active area with proper transient protection. (per EN 61000-4-2,1995)
Options:	
301.451900	USB Interface
301.451910	RS232 Interface



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