KeeTouch

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SAW Touch Screen Specification Index

KeeTouch SAW Sensor   **KeeTouch Controller**

● Part 1. Technical Specification

● **SAW touch screen panel technical specification**

Technology	Surface Acoustic Wave(SAW)

Sizes	7" to 32" (extending)
Controller Interface	USB and RS232
Resolution	4096*4096
Material	Pure glass
Positional Accuracy	Standard deviation of error is less than 0.080 in.(2mm)
Light Transmission	More than 90% per ASTM
Touch Activation Force	30-60g
Reliability	Scratch-free; More than 50,000,000 touches in one location without failure.
Surface Hardness	Mohs' hardness rating of 7
Multi-Point Touch	Intelligent discrimination by software
Operating Temperature	Touch Panel -20°C to +60°C
Storage Temperature	Touch Panel -40°C to +70°C
Humidity	10%-90% RH at 40°C, non-condensing
Operation Altitude	3800m
Accessories	Connector cables, double-sided glue, dust-proof stripes
Agency Approval	UL, CE, FCC, RoHS, CB

- **Controller technical specification**

Sizes(PCB)	**85mm*55mm*10mm**
Working voltage	5V±0.5V for KCA-UR01L-R1D or 12V±2V for KCA-UR01H-R1D
Working Current	80mA for 12V controller 70mA for 5V controller
Maximum Current	100mA for 12V controller 90mA for 5V controller
Resolution	4096*4096, Z-axis 256, not related with the sizes of the touch screen panel
Response time	≤10ms
Operating temperature	-10℃-70℃
Operating humidity	10%-90%RH.
Storage temperature	-25℃-80℃
Multi-Point Touch	Intelligent discrimination by software
Drivers Available	Windows 2000, Windows XP, Windows NT, MAC, Linux
Agency Approval	UL, CE, FCC, RoHS , CB

● Part 2. Features

- **Same driver for both USB and RS232 from 7" to 32"**
- **High image clarity**
- **Free of drift**
- **Z-axis pressure recognition**
- **Strong mechanical strength**
- **Short response time**
- **Compact size for easy integration**
- **Customization available on glass sensor size, driver, accessories**

● Part 3. Special Touch screen Products

- **Vandal-Proof Touch screen(S series)**

- 4mm,6mm tempered glass
- Super impact-proof performance
- Ideal solution for unsupervised applications
- Standard sizes available: 7" to 22"
- GB9963-1998

● **Anti-glare Touch screen(G series)**
  - Sunlight readable
  - Human engineering technology: eye fatigue reduction
  - Ideal solution for outdoor applications with strong sunlight
  - Standard sizes available: 7" to 47"

● **Water-proof Touch screen(W series)**
  - Latest technology and design
  - Free of frame
  - Super-thin glass sensor
  - Easier integration
  - Free of maintenance
  - IP 65 Rated
  - Standard sizes available: 15"and17" (customization available)

  Remark: combined special functions are available

● Part 4. Accessories

● **SAW Touch screen Controllers**
  - Has USB and RS232 dual interface
  - MTBF: more than 500,000 hours
  - EMI disturbing restrained
  - More stable, safer
  - Less power consumption

● **Connector Cables**
  - Standard length: 1.8m (customization available)
  - RDL   For   R1D   RS232   5V

    RDH   For   R1D   RS232   12V

    UDL   For   R1D   USB   5V

    UDH   For   R1D   USB   12V

● **Double-sided adhesive double tapes**
  - Various sizes available
  - Excellent glue performance

● **Dust-proof Stripes**
  - Thickness: 1.5mm-8mm
  - Width: 3mm-8mm
  - Length: any length
  - Made of special material, excellent dust-proof performance, avoid signal loss