SANTOKA 7.0 SG IPS

7.0 inch Flush Mount HMI based on NXP i.MX6 processor

Capacitive touch display offers great flexibility thanks to ist viewing angle independence

Flush Mount



AI-ENABLED WITH CLEA

GOLD PARTNER NXP

yocto PROJECT

HIGHLIGHTS

- **CPU**: NXP i.MX 6 Family
- **CONNECTIVITY**: 2x 100MbE, up to 3x USB, 2x RS232, RS485, CAN
- **GRAPHICS**: GC320 & GC355 2D accelerator + GC2000 3D accelerator
- **MEMORY**: Soldered on Board DDR3L memory

MAIN FIELDS OF APPLICATION

Biomedical/ Medical devices · Fitness Equipment · HMI · Industrial Automation · Measuring instruments · Multimedia devices · Point of Sales · Wireless Technologies

FEATURES

Processor	NXP i.MX 6 Family based on ARM® Cortex®-A9 cores : i.MX 6 Quad Plus – Full featured, 4x Cortex®-A9 cores up to 1.0GHz i.MX 6 Quad – Full featured, 4x Cortex®-A9 cores up to 1.0GHz i.MX 6 Dual – Full featured, 4x Cortex®-A9 cores up to 1.0GHz i.MX 6 Single – Full featured, 4x Cortex®-A9 cores up to 1.0GHz
Memory	1 GB 64 bit DDR3L
Graphics	Integrated Graphics, with up to 3 separate HW accelerators for 2D, OpenGL® ES2.0 3D OpenVG™ accelerator HW encoding of MPEG-4, H.263 V2, H.264, MJPEG HW decoding of MPEG-2, VC1, MPEG-4 / XviD, H.263, H.264, DivX
Video Interfaces	HDMI interface
Video Resolution	7.0 inch display, resolution 800 x 480, LED lifetime typ. 30k hours typ. 360 cd/m² brightness P-Cap (Projected Capacitive touch screen), with 3.0mm toughened glass cover, RAL 9005
Mass Storage	eMMC: 4 GB MLC SD slot: 4 bit MMC/SDIO/SD/SDHC
Networking	2x 100MbEthernet mPCIe (half size) socket for modems or Wifi/BT
USB	1x USB 2.0 OTG micro-AB up to 2x USB 2.0 Type-A
Audio	1x speaker (connector), 1 W RMS (8Ω) parallel to internal speaker

Serial Ports	2x RS-232, RS-485
Power Supply	9 ÷ 32 VDC
Operating System	Yocto
CAN Bus	1x CAN (ISO/DIS 11898)
Operating Temperature*	0°C ÷ +60°C
Dimensions	197.0 x 128.0 x 35.9 mm

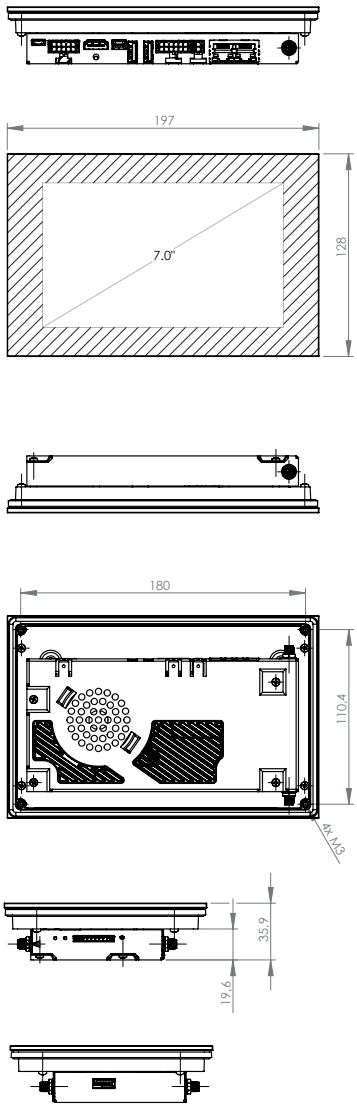
*Measured at any point of SECO standard heatspreader for this product, during any and all times (including start-up). Actual temperature will widely depend on application, enclosure and/or environment. Upon customer to consider application-specific cooling solutions for the final system to keep the heatspreader temperature in the range indicated.

Information subject to change. Please visit www.edge.seco.com to find the latest version of this datasheet

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BLOCK DIAGRAM

SANTOKA 7.0 SG
900-3544



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