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New capacitive touch controllers AMT and PenMount



Partnership SCHURTER, Danielson and AMT

SCHURTER and AMT are successful close partners since 14 years in the field of customized Touch Panel solutions. Danielson, as a new member of the SCHURTER Group, is fully integrated into this partnership. The AMT PCAP and resistive touch sensors and controller-systems are available for the entire SCHURTER Group.

Immunity for industrial and medical environments

AMT with their PenMount PCAP controller series has now released the new boards PM1x10, which meet the EMC standards for industrial and medical applications. These certifications are a big step forward to realize reliable PCAP systems in the industrial and medical market.

Fulfillment EMC requirements

The fulfillment of these high EMC requirements was made possible by appropriate modifications in the design of the PCAP sensor as well as the hardware and firmware of the controller system. The firmware includes a complementary frequency-hopping with dozens of alternate frequencies to lower interference frequencies and a differential analysis method to decrease interference in the medium frequency range. The sense channels of the microcontroller from Microchip are equipped with passive filters against high-frequency interferences. To increase the signal-to-noise ratio, charge pumps have been integrated into the drive lines.

Certifications

Immunity for Medical Electrical Equipment

EN 60601-1-2 (NEW 2014-02) Radiated EMI tested with 28V / m

Criterion A - no misinterpretation

Immunity for industrial environments

IEC 61000-4-3 Radiated electromagnetic interference tested with 10V / m

Criterion A - no misinterpretation

IEC 61000-4-6 Immunity to conducted disturbances, tested with 10Vrms

Criterion A - no misinterpretation

EN 61000-4-2 Immunity to Electrostatic discharge (ESD)

ESD test with 8kV contact discharge and 15kV air discharge

The PM1x10 PCAP controllers and touchscreens are available in sizes from 7" to 24" and support USB, UART, RS232 and I2C interfaces.

For more information please contact our product managers Ronald van der Voort (Danielson) or Roland Maurer (SCHURTER).

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Company:

SCHURTER continues to be a progressive innovator and manufacturer of electronic and electrical components worldwide. Our products ensure safe and clean supply of power, while making equipment easy to use. We offer a broad range of standard products including circuit protection, connectors, EMC products, switches and input systems, electronic manufacturing services as well as solutions. Moreover, SCHURTER is ready to work with our customers to meet their application specific requirements, not covered in our standard range. You can rely on SCHURTER's global network of companies and partners to guarantee a high level of local service and product delivery.

Contact:

For further information, please contact Bruno Ochs, Head Division Input Systems of the SCHURTER Group, who will be happy to provide assistance:

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