

CAP-XX Supercaps Selected by Jack for First Windshield Breakage Detection IoT Device

CAP-XX supercaps enable Jack to be self-powered by solar light, storing solar energy and delivering burst power needed for device's advanced BLE communications

SYDNEY, AUSTRALIA, May 4, 2021 /EINPresswire.com/ -- [CAP-XX](#) Limited (LSE:CPX), the leading manufacturer of ultra-thin prismatic and cylindrical supercapacitors, announced that Jack, developer of the first windshield breakage detection solution, has selected the [CAP-XX HS208F supercap](#) for its solar-powered IoT device.

Jack chose the CAP-XX prismatic supercapacitors for their ability to store the solar energy harvested by the device's onboard 4-cell solar panel, for their low ESR which enables the high burst of power needed for the device's advanced Bluetooth Low Energy (BLE) data transmissions, and for their thin form factor which fits easily inside the small (L x H x W) 134mm x 22.30mm x 27.60mm IoT device. The Jack device only needs a small 1.2Ah Li-SOCI2 backup battery because the CAP-XX supercap stores enough solar energy to almost completely power the device from solar light.

The Jack windshield-mounted device uses piezoelectric sensors to detect windshield impacts, analyzes the severity and location data from each impact using proprietary cloud-based machine learning algorithms, and then notifies the vehicle owner or insurer in real-time to enable proactive repair maintenance when required. With timely repairs, the goal is to mitigate glass maintenance costs by 50% or more.

[Watch a video of the Jack solution.](#)



CAP-XX's supercaps enable Jack to be self-powered by solar light, storing solar energy and then delivering high burst power needed for the device's advanced BLE data communications.

The Jack device communicates via BLE 5.2 with a certified Gateway device, which can be an Android or iOS phone app using the Jack SDK, Jack's own Android/iOS phone app, Jack's Gateway telematics solution or a third-party telematics solution with Jack support.

Jack uses the ultra-power-dense CAP-XX HS208F supercap to deliver high currents required by the IoT application. Features of the CAP-XX HS208S supercapacitor include:

- 800 mF / 5.5 Volt
- -40 to +85°C
- 89 x 17 x 3.4 mm
- Very very low ESR of 45 mΩ
- Remarkably low leakage current 1 μA (micro-Amp)



The Jack device uses piezoelectric sensors to detect windshield impacts, analyzes the data, then notifies the vehicle owner in real-time to enable proactive repair maintenance when required. The goal is to mitigate glass maintenance costs by 50% or more.

“The ultra-thin CAP-XX supercapacitor is a key enabler because it fits easily in our small device, and it has the energy density to almost completely power our device from solar light,” said Nicolas Chorine, CEO of Jack.



We're proud to provide the high energy and power density Jack needs to power its advanced communication system. This is just one of many possible applications for thin CAP-XX supercaps in IoT devices.”

Anthony Kongats, CEO at CAP-XX

“We are proud to provide the high energy and power density Jack needs to power its advanced communication system,” said Anthony Kongats, CEO at CAP-XX. “This is just one of the many possible applications for thin CAP-XX supercapacitors in IoT devices.”

About CAP-XX

CAP-XX (LSE:CPX) is a world leader in the design and manufacture of ultra-thin prismatic and compact

cylindrical supercapacitors. Its prismatic supercapacitors are manufactured in Australia and Malaysia and its cylindrical supercapacitors are manufactured in China. The company's strong intellectual property (IP) portfolio includes 21 patents worldwide. CAP-XX's ultra-thin prismatic supercapacitors are ideal for space-constrained electronics applications where small energy storage device size and thickness are important. The unique feature of CAP-XX supercapacitors is their very high-power density and high-energy storage capacity in space-efficient thin prismatic and compact cylindrical packages. For more information about CAP-XX, visit <https://www.cap-xx.com/> or email sales@cap-xx.com.

About Jack

Jack is a start-up of AGC Automotive Europe and is the first solution to effectively address the concern of increasing vehicle glass maintenance costs. By detecting, diagnosing and notifying glass damages in real-time, Jack makes sure you don't miss any breakage, you handle them on time and mitigate your glass maintenance costs by 50%, or more.

About AGC Automotive Europe

Based in Louvain-la-Neuve (Belgium), AGC Automotive Europe is the

European automotive glass branch of the AGC Group. The AGC Group, with Tokyo-based AGC Inc. at its core, is a world-leading supplier of flat, automotive and display glass, chemicals and other high-tech materials and components.

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Thin prismatic CAP-XX HS208F supercap fits easily in Jack's small IoT device and delivers high currents required for the data communications via BLE 5.2 with a certified Gateway device.

This press release can be viewed online at: <https://www.einpresswire.com/article/540050013>

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