eSynC-vcE *Product/Green Sheet*

SimulCharge™, Voltage Converter, Ethernet Adapter with RBM Technology for Samsung Micro USB Mobile Devices

The eSTS-vcE is a SimulChargeTM adapter designed for use with select Samsung Micro USB mobile devices. It features simultaneous charging and access to data, a built-in voltage converter, wired Ethernet connectivity and Network Recovery and Battery Modulation (RBM) technology.

The eSTS-vcE's on-board DC-DC voltage converter can take a power input of between 9 and 36 volts* and steps it down to the 5 volts required by most mobile devices**. The adapter can be used to supply power in permanent and semi-permanent installations (adhering to local electrical codes) with minimal installation cost. This eliminates the requirement for a licensed electrician to install and run a dedicated AC power line.

The adapter can also be installed up to 50 ft (15 m) from the AC power source. This means it can be installed in locations with limited electrical outlets and provides greater options for mobile device placement.

The eSTS-vcE's Ethernet port provides a reliable 10/100-capable wired network connection. It is ideal for running digital signage, company management systems and information kiosks in a 24-hour environment.

Battery Modulation protects the mobile device from overcharging and its battery from bloating, which can cause severe damage to the device. Together with the LAVA Tablet Manager (LTM) app, which needs to be installed on the mobile device, the adapter optimizes battery life and makes the mobile device last longer for a better return on investment. LTM monitors the battery level and users can set upper and lower charging thresholds for the battery. When the battery charges to the higher threshold, the adapter turns off charging and the mobile device is allowed to discharge until it hits the lower threshold. This ensures the battery never overcharges, even if it is left plugged in 24/7. This modulation and overcharge protection helps to extend the lifespan of both the battery and device.

Network Recovery provides a failsafe system to recover the wired network connection if it drops out. If the connection is lost for more than a few minutes, the LTM app sends a command to reset the Ethernet portion of the adapter to re-establish the connection. It's the equivalent of unplugging the Ethernet cable and then plugging it back in.

The adapter comes in a beige ABS casing that protects the electronics from mild shocks and impacts, allowing it to be used in different implementations. It ships with a Micro USB to Micro USB cable to connect the mobile device. This custom LAVA cable must not be extended or replaced with a third-party one. Doing so will cause the mobile device to stop working.

**The 9-36V DC power supply is not included with the adapter and must be purchased separately.*

***The mobile device can also be powered through the adapter's Micro USB-B port, which is rated for the standard 5 volts at 2 amps. It is recommended to use the charging cable that came with the tablet. A separate power supply is not included.*

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