eSTS ADAPTER FEATURES

SimulCharge™ - the technology that enables possibilities
RBM - the extension that makes them last.

SIMULCHARGE™

SimulCharge™ technology allows tablet to operate as a USB Host controller while simultaneously being charged

BATTERY MODULATION

Battery Modulation protects the tablet battery from overcharging to maximize your tablet kiosk operational lifespan

NETWORK RECOVERY

Network Recovery Operation enables tablets to recover from failed attempts to connect to the network

SCREEN BRIGHTNESS MANAGEMENT

LAVA Tablet Manager lets you control the brightness of the tablet based on the time of day

POWER over ETHERNET (PoE)

Power over Ethernet (PoE) allows network data and electrical power to be carried over an Ethernet cable, eliminating the need for an electrician to install a dedicated power drop.

WIRED NETWORK

10/100 Fast Ethernet interface enhances the reliability and the security of the internet connection

UP TO 3 x USB PORTS

Extends your tablet kiosk functionality with up to 3 USB peripherals

eSTS PRODUCT LINE SPECIFICATION

eSTS-P2UE

2 X USB

2-PORT USB HUB ETHERNET ADAPTER WITH PoE

eSTS-2UE

2 X USB

2-PORT USB HUB & ETHERNET ADAPTER

eSTS-3U
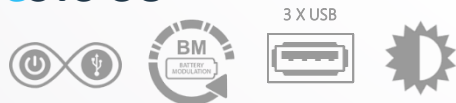
3 X USB

3-PORT USB HUB ADAPTER

eSTS-PE

ETHERNET ADAPTER WITH PoE

eSTS-E

ETHERNET ADAPTER

eSTS-1U-OEM

1 X USB

1-PORT USB ADAPTER

MULTIPLE CONFIGURATION OPTIONS

All eSTS adapters come with SimulCharge™, RBM, and Screen Brightness Management.

| MODEL	1 x USB	2 x USB	3 x USB	LAN	PoE
eSTS-P2UE		+		+	+
eSTS-PE				+	+
eSTS-2UE		+		+	
eSTS-E				+	
eSTS-3U			+		
eSTS-1U-OEM	+				

WHY SIMULCHARGE™ TECHNOLOGY

SIMULCHARGE™

ACCESS USB PERIPERALS WHILE CHARGING

SimulCharge™ is a mode that allows portable devices such as tablets or phones to operate as a USB Host controller while simultaneously being charged.

This technology is only available for Samsung Tablets.
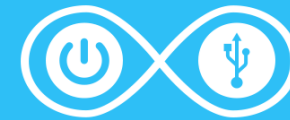
SimulCharge™
Where Technology
Uncovers Possibilities

SIMULCHARGE™

USB or AC POWER BRICK, PoE

ETHERNET

USB PERIPHERALS

FLEXIBLE TABLET POWER OPTIONS:

USB Power Brick

Power over Ethernet (PoE)

AC Power Brick

COMMERCIAL CONNECTIVITY
USB-LAN-PoE SOLUTIONS

WHY RECOVERY & BATTERY MODULATION

RBM TECHNOLOGY

Battery modulation allows the tablet to be repetitively charged up to an upper battery level and then allowed to discharge to a lower battery level. This mimics the standard charge cycles to avoid trickle charging (overcharging).

Network Recovery Operation enables tablet recovery from failed attempts to connect to the network.

RBM technology improves battery tablet longevity, and enhances DHCP network operations.

24/7 TABLET BATTERY OVERCHARGE PROTECTION AND RELIABLE NETWORK CONNECTIVITY

BM
BATTERY MODULATION

Battery modulation protects the tablet battery from overcharging to maximize your kiosk operational lifespan

DHCP
RECOVERY

Network recovery provides stable network connectivity without interruptions

MAKE YOUR TABLET LAST LONGER

Protect your tablet from a swollen battery caused by overcharging

LAVA COMMERCIAL CONNECTIVITY
USB-LAN-PoE SOLUTIONS

WHY POWER OVER ETHERNET

✓ **SOLVES DISTANCE TO POWER SOURCE ISSUES**
Tablet can be up to 300 feet from power source (PoE switch or injector)

✓ **SIMPLIFIES CABLING**
LAVA PoE devices can deliver both data and power over one cable to the tablet

✓ **MORE ROBUST NETWORK CONNECTION**
LAVA devices deliver a better network connection than WiFi or other LAN hubs

✓ **SIGNIFICANTLY LOWERS LARGE-SCALE DEPLOYMENT COSTS**
Can significantly decrease costs associated with supplying power to electrical access points.

COMMERCIAL CONNECTIVITY
USB-LAN-PoE SOLUTIONS

AVAILABE ADAPTERS WITH PoE:

eSTS-P2UE

SimulCharge™ PoE / 2 x USB / Ethernet Adapter
with Battery Modulation
for Samsung Tablets

eSTS-PE

SimulCharge™ PoE Ethernet Adapter
with Battery Modulation
for Samsung Tablets

MULTIPLE PRODUCT APPLICATIONS

APPLICATION EXAMPLES

POINT OF SALES

- Product Catalogues
- Line Busting & Ticketing
- Price Checking & POS systems
- Menus, order taking
- Transportation & Logistics endpoints
- Digital Signage

WORKFORCE MANAGEMENT

- Conference Room Scheduling
- Timecard
- Dispatching
- In-vehicle data capture
- Virtual Concierge
- Patient Check In

KNOWLEDGE SHARING

- Web/Video conferencing
- Trade Show Guides
- Customer Surveys
- Remote control
- Way-finding

QUALITY CONTROL

- Material tracking
- Production
- Scheduling

ENTERTAINMENT

- Gambling Kiosk
- Stadium VIP service

SIMULCHARGE MINI TAB KIOSK
SIMULCHARGE ADAPTER | LAVA CASING | SAMSUNG TAB E | BARCODE SCANNER

PRODUCT CATALOGUE

RETAIL PRODUCT CATALOGUES

IN-VEHICLE SYSTEM

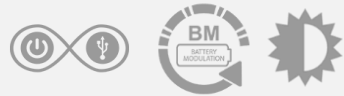SAMSUNG TAB A
TICKETING KIOSK

POS SYSTEM

COMING SOON PRODUCTS

eSTS-BM-OEM

BATTERY MODULATION OEM ADAPTER

ℹ The eSTS-BM-OEM adapter is a core component of an extended version of STS boards' family. It features the RBM technology and screen brightness management. The eSTS-BM-OEM uses a standard USB power supply provided with the tablet.

The RBM technology improves battery tablet longevity.

eSTS-3Uvc

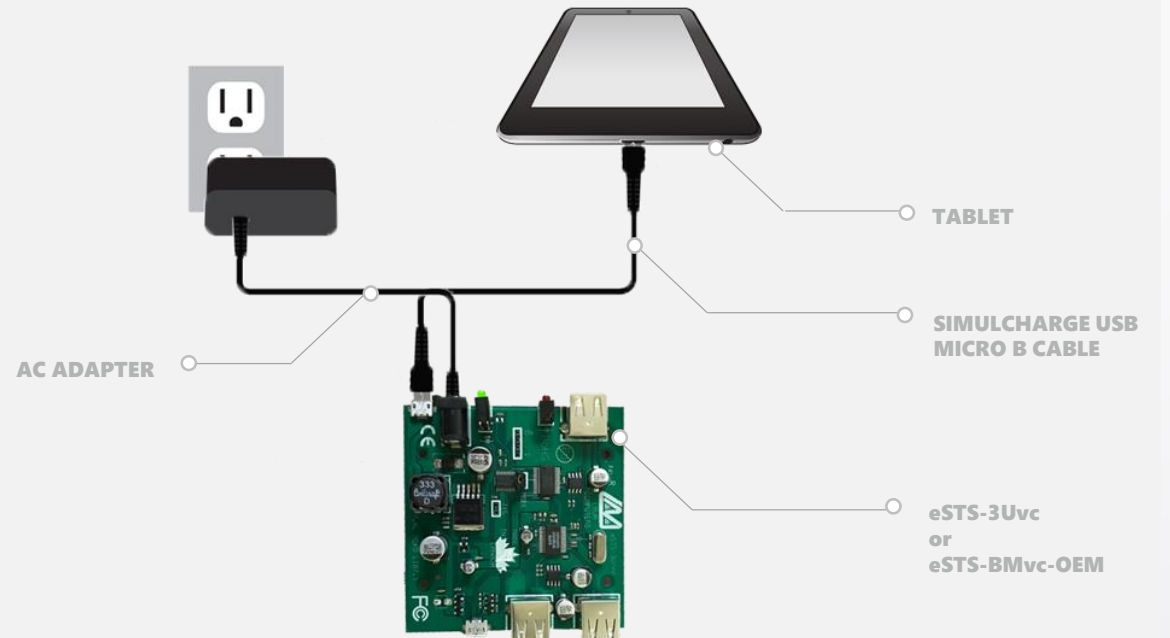3-PORT USB HUB ETHERNET ADAPTER WITH EXTERNAL DC SUPPLY

eSTS-BMvc-OEM

BATTERY MODULATION OEM ADAPTER WITH EXTERNAL DC SUPPLY

ℹ Allows an external 20 V up to 36 V DC power supply to be placed up to 50 feet away from the tablet.
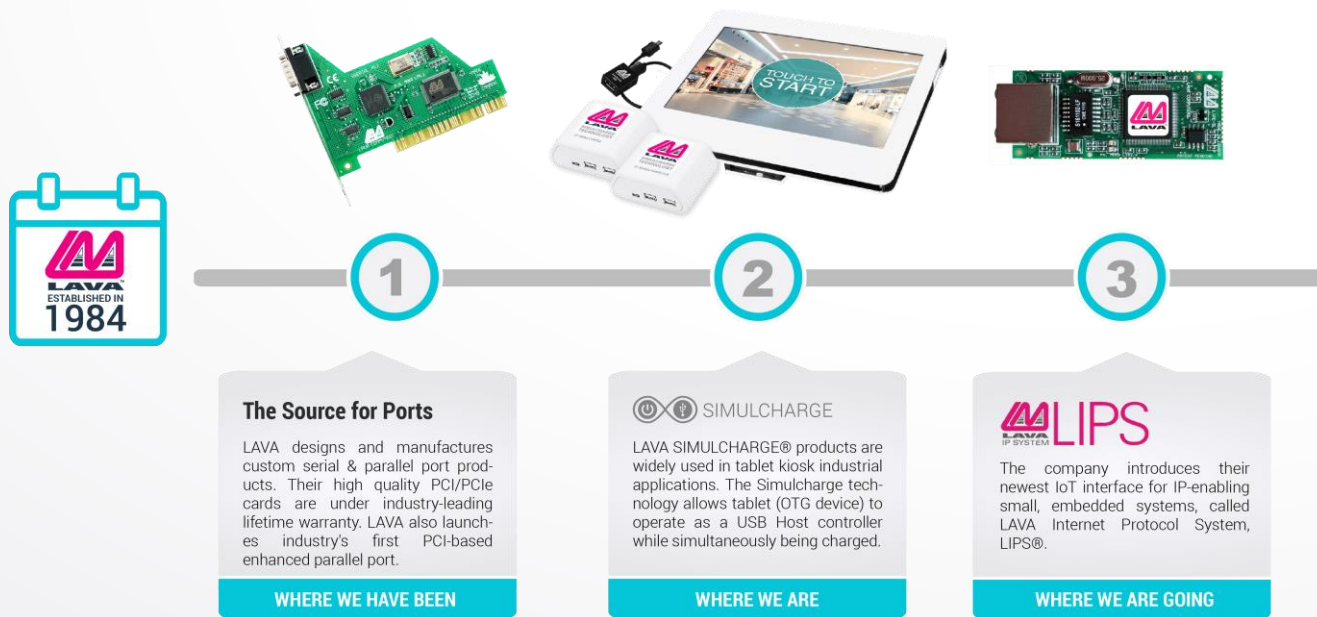
TABLET

SIMULCHARGE USB MICRO B CABLE

AC ADAPTER

eSTS-3Uvc
or
eSTS-BMvc-OEM

ABOUT LAVA

COMPANY OVERVIEW

LAVA designs and manufactures computing interfaces and devices for the Point of Sale, Kiosk, Gaming, Industrial Automation, Security and Access Control industries, and has been doing so since 1984.

As experts in serial interfaces for PCI, PCIe, ISA, USB, and Ethernet buses, LAVA builds tablet PoE/USB/LAN devices, Ethernet-to-serial device servers, serial/parallel I/O boards, and embedded IoT/M2M connectivity devices.

With over a million LAVA products built into workstations, servers, retail POS systems, and industrial computers, LAVA products are trusted by resellers, distributors, OEMs and system builders in over 47 countries worldwide.

ESTABLISHED IN
1984

1 **2** **3**

The Source for Ports
LAVA designs and manufactures custom serial & parallel port products. Their high quality PCI/PCIe cards are under industry-leading lifetime warranty. LAVA also launches industry's first PCI-based enhanced parallel port.

WHERE WE HAVE BEEN

SIMULCHARGE
LAVA SIMULCHARGE® products are widely used in tablet kiosk industrial applications. The Simulcharge technology allows tablet (OTG device) to operate as a USB Host controller while simultaneously being charged.

WHERE WE ARE

LIPS
LAVA IP SYSTEM
The company introduces their newest IoT interface for IP-enabling small, embedded systems, called LAVA Internet Protocol System, LIPS®.

WHERE WE ARE GOING

BENEFITS OF WORKING WITH LAVA

The richest SimulCharge product line for tablet kiosks solutions

Samsung Enterprise Alliance Silver-Tier Partner and KNOX Partner

In-house R&D, Engineering & Manufacturing

3-year warranty

Long-term availability

Phone-in technical support

SIMULCHARGE

Expertise is a precondition of **creativity**.
Creativity is a precondition of **invention**.
Invention is a precondition of **evolution**.
MEET LAVA

LARGE DEPLOYMENT CLIENTS

Walmart · McDonald's · Quiznos · Loblaws · United States Postal Service · Texaco · Kodak

Canadian Tire · transdev MOBILITY INSPIRED BY YOU · COMPASS GROUP · DOMINION VOTING (Our customers come first.) · ETIHAD STADIUM · Schneider Electric · LeanPath · BEST BUY

DISTRIBUTORS AND RESELLERS

Concinnity · Saratota Networking Products & Systems · READYCREST GROUP · TigerDirect · AVNET · ARROW ELECTRONICS, INC. · legrand · SYNNEX CANADA

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