



# nSTS-1U QUICK START

## SIMULCHARGE™ USB ADAPTER WITH DOCKING DETECT FOR SAMSUNG TABLETS

The LAVA nSTS-1U adapter is a member of the LAVA nSTS Family of devices.

The nSTS has the ability to place the tablet in SimulCharge Mode and use a Docking Detect feature to automatically connect a tablet while docked to a cradle. The Docking Detect is an add-on to simplify installation process of connecting kiosk application components in a user defined way. The adapter is suitable for both, permanent and portable applications.

Simulcharge mode allows select Samsung Tablets to work with USB accessories while power is being supplied to the tablet, which is referred to as SimulCharge Mode.

The nSTS has no required setup in the tablet. The nSTS board is a simple plug-n-play solution with an automatic Simulcharge connectivity to the tablet.

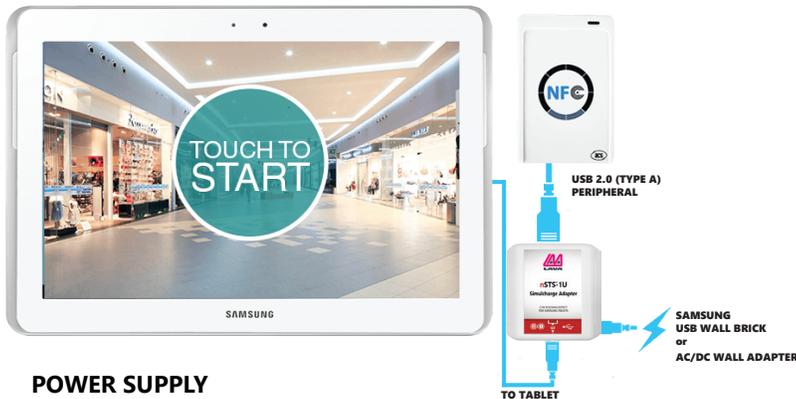
### AVAILABLE WITH AN OPTIONAL BUILT-IN VOLTAGE CONVERTER

Allows an external 9 V up to 24 V DC power supply to be placed up to 50 feet away from the tablet.

### APPLICATION

The nSTS board is ideal for situations where tablets need power and the ability to support USB accessories in a situation when power sequences cannot always be followed. If you intend to plug your tablet solution in and out of power often, this board will meet your installation requirements.

### nSTS-1U SAMPLE CONNECTION DIAGRAM



### STATUS LED STATES

Each nSTS has a Status LED. The mounting location varies between each nSTS Product.

The "Charge State" LED describes states of a connection as followed:

POWER HAS BEEN APPLIED TO THE nSTS ADAPTER	Even pattern of "on" and "off"
TABLET HAS BEEN CONNECTED/DOCKED	Rapid "on" and "off" pattern
SIMULCHARGE MODE	Continuous "on"
TABLET HAS BEEN DISCONNECTED	Rapid "on" and "off" pattern
NO POWER APPLIED TO THE ADAPTER	Off

### POWER SUPPLY

#### SAMSUNG USB WALL ADAPTER

The board and tablet are typically powered through the Micro USB-B power input using the same USB power supply provided with the tablet. The standard Samsung USB Power Supply is rated at 5 volts and 2 amperes, which nominally provides 5.0 to 5.1 volts at the nSTS input.

#### OPTIONAL WITH nSTS-VC1U WITH BUILT-IN VOLTAGE CONVERTER: AC/DC POWER SUPPLY

The board and tablet can be used with a built-in voltage converter (nSTS-vc1U) powered through the Barrel jack (2.0 mm) DC power input using AC/DC wall adapter. This allows for an external 9 V up to 24 V power supply to be located up to 50 feet away from the tablet. Application of the wrong voltage can result in immediate damage to the board and possibly other components in the system.

### SYSTEM REQUIREMENTS

Tablet:	Please refer to the tested tablet list that can be found at <a href="http://www.lavalink.com">www.lavalink.com</a>	
Power Supply:	USB Charger/Power Supply with a Micro USB-B connector, such as the power supply provided with the Galaxy tablet. Any regulated 5 volt power supply capable of at least 2 amperes can be used. When using the optional Barrel Jack, an unregulated 12V up to 24V DC power supply is recommended.	
Ports/Connectors:	1 x USB A port (for USB 2.0 accessories) 1 x Micro USB B port (for Tablet connection)	1 x Micro USB B port (the 5V power input) 1 x Charge State LED
	<b>OPTIONAL:</b> 1 X Barrel (2 mm) DC Power Connector ( Centre Pin Positive)	
Cables:	1 x Micro USB B to Micro USB B cable (8"/20 cm) Note: The custom 8"/20 cm cable connects the device to the tablet. This cable may not be extended.	
Measurements:	Depth: 3.3 inches (83 mm) Width: 3.8 inches (97 mm)	Height: 1.7 inches (44 mm) – with standoffs Weight: 3.8 oz (108 g)