

CASE STUDY:

TIPSY ROBOT

What Gets Vegas' Hottest New Act Ticking



SimulCharge



Battery Modulation



Network Recovery



Ethernet



Screen Brightness Management



2 x USB



INTRODUCTION

If you travel to Las Vegas in the near future, you won't find the city's newest and hottest attraction in a casino. Instead, you will have to visit the Miracle Mile Shops at the Planet Hollywood Las Vegas resort, more specifically, its Tippy Robot, the world's first land-based robotic bar. That's right; the mint in that next mojito you've been craving could be crushed by robotic hands. Tippy Robot and robotic bartending have the potential to revolutionize the food service industry. LAVA's SimulCharge technologies are crucial in making such futuristic service a reality.

CHALLENGES:

- PROVIDING DATA AND CHARGING FOR BOTH, SAMSUNG TABLET AND USB PERIPHERALS
- ESTABLISHING SECURE AND RELIABLE WIRED NETWORK CONNECTIVITY
- PROTECTING SAMSUNG TABLETS FROM OVERCHARGING TO EXTEND BATTERY LIFESPAN

SOLUTIONS:

- INTEGRATING LAVA'S eSTS-2UE WITH A TABLET AND USB PERIPHERALS
- DEPLOYING A NETWORK RECOVERY FEATURE TO STABILIZE TABLET CONNECTIVITY
- IMPLEMENTING BATTERY MODULATION TO ENSURE A HEALTHY TABLET CHARGING

BENEFITS:

- EXTENDED TABLET FUNCTIONALITY WITH INTEGRATED USB DEVICES
- STABLE NETWORK CONNECTION WITHOUT INTERRUPTIONS
- EXTENDED TABLET LIFESPAN WITH UP TO 3 YEARS



HOW TIPPY ROBOT WORKS

While it's the robots that will prepare your drinks, the entire process begins earlier, with table-mounted touch-screen kiosks. Customers can order drinks off the menu, or create their cocktails on these Samsung tablet kiosks and then watch two robots work their magic.

When Stephen Mornet, the co-founder of Robotic Innovations, which is Tippy Robot's parent company, came up with the idea of robotic bartenders, he decided to collaborate with LAVA to integrate Samsung Galaxy Tab A 10.1, with a contactless reader and the imageHOLDERS enclosure. Our company has extensive experience effectively delivering large-scale tablet kiosk connectivity solutions, and Mornet knew that LAVA could be counted on. He partnered with us, and since then our SimulCharge technology, which allows portable devices such as tablets or phones to operate as a USB/Host controller while simultaneously charging, has supported Vegas' two newest bartenders.

The exact LAVA adapter that was used was the eSTS-2UE; an accessory that has a 2-port USB, hub contains an Ethernet adapter and has our patented RBM technology. The R in RBM stands for Network Recovery, which allows LAVA hardware to automatically restart a network connection and resolve general connectivity issues that frequently plague tablets. The BM in RBM conversely stands for Battery Modulation, and it ensures that a tablet's battery will be healthily charging with a 24/7 overcharge protection. Together this technology guarantees a robust and reliable network connection in addition to a long-lasting battery and consequently a tablet that does not over-charge and bloat. Our SimulCharge technology also helped the tablet-kiosks reliably and securely process payments, in both magnetic strip and NFC tap methods.

LAVA prides itself on the simplicity, reliability, and utility of its products and our commitment to this mission has allowed us to power Tippy Robot successfully.

ABOUT LAVA COMPUTER:

LAVA's mission is straightforward. We use our expertise to invent and innovate tablet PoE/USB/LAN/POWER connectivity solutions. Our team of skilled engineers devise creative, effective and reliable tablet solutions to our clients' pressing technological problems. LAVA is the only company that offers the specific technologies it does, because we pride ourselves on thinking differently. If we continue helping our clients transform, economize and improve their businesses with our unique solutions, then we are doing our jobs. At LAVA we are not only reshaping our clients' businesses, but the future of computing technology.

ABOUT ROBOTIC INNOVATIONS:

Robotic Innovations is a full service company, offering turnkey robot systems and a full range of services to support new and existing robotic systems. Robotic Innovations has experience in a wide range of Robotic applications including; MIG welding, Spot welding, Pick and Place, Press to Press, Dispensing, Quality Control, Packaging, Machine Tending, Forging, Plastics, Paint and much more.

ABOUT MAKR SHAKR:

Makr Shakr is a robotic bartender created in Turin, Italy, that explores the new dynamics of social creation and consumption. The installation allows users to design their own cocktail creations through a digital application, while digitally controlled robotic arms transform these designs into reality. Instead of trying to replace a bartender with a robot, Makr Shakr aims to be a social experiment that looks at how people might embrace the new possibilities offered by digital manufacturing.

ABOUT SAMSUNG:

As a global leader in enterprise mobility and information technology, Samsung provides enterprise products and services that help customers realize the promise of digital business. Samsung utilizes partnerships to transform their products into end-to-end solutions. From hardware to software to implementation, Samsung works with integrators to bring these solutions to life.

ABOUT IMAGEHOLDERS:

ImageHOLDERS has a simple aim. They help your business 'Engage' customers by allowing them to 'Access' information anywhere and then 'Capture' their valuable data, driving sales with the use of secure tablet enclosures, kiosks and customisable AV display solutions.

IMPACT

The robotic servers that LAVA has helped power are growing in popularity and poised to become one of the next big things in the high-end food service industry. Stephen Mornet has said the following about the excitement these galactic drink pourers are bringing; "the customer response has just been amazing. This is an attraction as well as a bar. It lets consumers interact with cutting edge robotic technology through the user interface of the tablet."

However, the Topsy Robot is not the only place that relies on these digital drink makers. On the Quantum of the Seas, one of the Royal Caribbean's newest and most forward lines of ships, two robotic bartenders also work in its Bionic Bar.



The robots on the cruises use slightly different technology than those in Vegas, but they nevertheless rely on a crucial LAVA part, the SimulCharge USB adapter. The popularity of such bars is unsurprising. Robots are both an attraction and efficient mechanism for food service. For Vegas bars, cruise lines and other industries looking to perpetually wow their high-end customer with the most innovative gadget, nothing is more fresh and creative than seeing a sleek robotic bartender slice up a lemon for your Rum and Coke.

Moreover, the robots are quick and capable servers. At the Las Vegas bar, for example, the 28 kiosk stations enable all customers to get served without waiting. Although there are on average 70 people in the bar at one time, Mornet says that "we have not had an issue thus far of long lines of people waiting to order drinks." Most if not all bar patrons are going to have a hard time disagreeing with the thought of never having to wait longer than half a minute for a drink order, and seeing it prepared in a completely novel way.

Whether you are in the food service industry or simply like to grab a drink at a bar now and then, keep an eye out for robotic bartenders. They are friendly, we promise, taking over and made possible through LAVA SimulCharge technology solutions.

GET IN TOUCH

Find out how LAVA SimulCharge and RBM Samsung adapters could benefit your business. Please call us on +1 416 674-5942 for more information and to discuss your requirements. Alternatively, email sales@lavalink.com.



LAVA Computer MFG. Inc.
2 Vulcan St., Toronto, ON M9W 1L2, Canada
Tel: + 1.416.674.5942
www.lavalink.com

MEMBERSHIPS & ASSOCIATIONS

