

M1-B1-USB-AST User Guide

Legal

Copyright 2022, Signetik, LLC. All rights reserved.

Signetik, SigCell, SigBLE, SigSense, SigNet, SigFi, SigGate and SigLR are registered trademarks of Signetik, LLC.

Disclaimers

Signetik provides all resources “as is” and with all faults, and disclaims all warranties, express and implied, including without limitation and implied warranties of merchantability, fitness for a particular purpose or non-infringement of third-party intellectual property rights.

These resources are intended for skilled developers designing with Signetik products. You are solely responsible for (1) selecting the appropriate Signetik products for your application, (2) designing, validating and testing your application, and (3) ensuring your application meets applicable standards, and any other safety, security, or other requirements. These resources are subject to change without notice. Signetik grants you permission to use these resources only for development of an application that uses the Signetik products described in the applicable resource. Other reproduction and display of these resources is prohibited. No license is granted to any other Signetik intellectual property right or to any third-party intellectual property right. Signetik disclaims responsibility for, and you will fully indemnify Signetik and its representatives against, any claims, damages, costs, losses, and liabilities arising out of your use of these resources. Signetik’s products are provided subject to Signetik’s Terms of Sale (www.signetik.com/legal) or other applicable terms available either on www.signetik.com or provided in conjunction with such Signetik products. Signetik’s provision of these resources does not expand or otherwise alter Signetik’s applicable warranties or warranty disclaimers for Signetik products.

Mailing Address

Signetik, 3833 South 14th St, Lincoln, NE 68502

Support

Users of Signetik products may receive assistance through the following channels:

- Symmetry Electronics - 1-866-506-8829
- Escalated to Signetik Technical Support
- Email: support@signetik.com

Customers should contact their distributor for support.

Warranty

Warranty information is available at www.signetik.com/legal

M1-B1-USB-SST User Guide	1
Legal	1
Disclaimers	1
Mailing Address	1
Warranty	2
Label information	4
Physical Label	4
Label examples	4
Product Summary	5
Product Brief	5
Product Variants	5
Package Contents	5
Product Specifications	6
Mechanical	6
Safety Information	7
Handling Precautions	7
Product Setup	8
Regulatory and Environmental Information	8
Information to the user	8
FCC Declaration of Conformity	8

Label information**Physical Label**

Model Number: CTR-02

IMEI: 352656106378246

EUI: 0016c001ff186a4c

FCC ID: 2AOSNM1B1CSTM

Contains FCC ID: 2ANPO00NRF9160

This device complies with Part 15 of the FCC rules. Operation is subject to the following two conditions:(1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Label examples

An example of physical label is provided in a separate file.

Product Summary

Product Brief

M1-B1-USB-AST BLE to Cellular gateway is designed for intelligent IoT applications with the capability of interfacing to BLE devices and relaying these devices' status to the Internet via the LTE-M modem. The gateway supports various IoT protocols such as HTTP REST, CoAP/CBOR, MQTT, TLS, FOTA, and more.

Product Variants

Product Name	Description	
M1-B1-USB-AST	Custom BLE software for Astute on the M1-B1-USB-CSTM	
M1-B1-USB-CSTM	Standard BLE software	
CTR-02	Customer facing, product model number	

Package Contents

- 1 – CTR-02
- 1 – USB micro power supply
- 1 – Marketing materials

Product Specifications

Mechanical



Safety Information

This device can be used in fixed installations. Fixed installations are when devices is located on a physically immobile structure such as a table or desk.

In order to comply with FCC RF Exposure requirements, this device must be installed such that a minimum separation distance of 20 cm is maintained between the antennas and all persons during normal operation.

Recommended from other RF device manufactures should be followed when this product is installed in the vicinity of other RF devices.

Handling Precautions

Although the device is designed to protect against anti-static discharge from handling, users should follow general anti-static precautions when handling the device.

Product Setup

1. Connect the USB power cable to the back of the gateway
2. Plug USB power cable into the wall outlet
3. Power on device using rear power switch.

Regulatory and Environmental Information**Information to the user**

This equipment has been tested and found to comply with the rules for white space devices, pursuant to part 15 of the FCC rules. These rules are designed to provide reasonable protection against harmful interference. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- (1) Increase the separation between the equipment and receiver.
- (2) Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- (3) Consult the manufacturer, dealer, or an experienced radio technician for help.

FCC Declaration of Conformity

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. The user is advised that any equipment changes or modifications not expressly approved by the party responsible for compliance could void compliance with the FCC regulations and, therefore, the user's authorization to operate the equipment.