

JEDI One for BeagleBone

PRODUCT TECHNICAL SHEET

Machinechat® JEDI One for BeagleBone is an all-in-one software application that allows you to easily add IoT data collection, visualization, monitoring and local storage to BeagleBone Black based (or compatible Beaglebone) projects in minutes, with zero coding. Because JEDI One runs locally on the Beaglebone, there is no need for sending all your data to the cloud and there are no monthly subscription fees.



PRODUCT FEATURES

- Easily develop and deploy your BeagleBone IoT projects with a beautiful graphical interface in minutes instead of months
- Single binary with no other dependencies – just download and run
- Modern browser-based graphical user interface with multi-user support that allows access to JEDI One from anywhere on your network
- Drag and drop and point-and-click menus allow for easy and quick configuration of dashboards, rules, monitoring and storage.
- On prem, allowing users to eliminate data privacy issues and avoid cloud subscription costs
- Supports SSL for secure access
- Single license supports one BeagleBone board and up to 16 devices and/or sensors.

HARDWARE AND SYSTEM REQUIREMENTS

- Tested and supported on BeagleBone Black Ethernet and Wireless
- Known to work on other AM335x-based BeagleBone boards including Beaglebone Black Industrial, BeagleBone AI, BeagleBone Green and BeagleBone Enhanced
- AM3358 Debian Linux OS

MEMORY AND STORAGE REQUIREMENTS

Memory : 512MB or greater

Storage : 30MB minimum of disk or flash space for JEDI One application



DATA COLLECTION

- Integrated HTTP and TCP data collectors allow for easy device data collection
- Custom data collector plug-ins allow for collecting data from any device, sensor or application without altering their native protocols
- Integrated MQTT server with optional TLS encryption allows for on-prem data collection



DATA MONITORING

- Real-time rules engine for monitoring data
- Email, SMS* and custom action alerts
- Networked device monitoring

*SMS requires either a Twilio account or cellular carrier with email to text service.



DATA VISUALIZATION

- Configurable real-time dashboard with support for viewing historical data
- System view allows users to add custom background images and visualize data in the context of the project environment
- Sortable grid view provides single pane visualization of connected devices and sensors



DATA STORAGE

- Configurable local data storage with data retention controls
- Data stored in CSV format is exportable to virtually any application when necessary