

JEDI One

Enable Your Students to Build IoT Projects and Data Acquisition Applications Quickly & Inexpensively

OVERVIEW

Machinechat JEDI One is a software application that enables students to quickly build IoT projects and data acquisition systems without the need to spend weeks building and debugging custom software. JEDI One is available as a native application for Apple macOS, Microsoft Windows, Linux and Raspberry Pi OS, eliminating the need for licensing and installing complex virtualization software on student laptops or lab machines.

Easy to configure and customizable data collectors allow students to integrate virtually any sensor or data acquisition hardware to incorporate data collection, visualization, monitoring, rules and local storage into their projects.

Priced affordably at \$39 to \$79 for a single license, students can also easily extend their learning beyond the classroom.



PRODUCT FEATURES

- Easily develop and deploy your Raspberry Pi®, BeagleBoard® BeagleBone, Windows 10®, Linux, and MacOS® IoT projects with a beautiful graphical interface in minutes instead of months
- Single binary with no other dependencies – just download and run. No cloud needed.
- 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 PC or embedded platform and up to 16 or 32 devices and/or sensors.

HARDWARE AND SYSTEM REQUIREMENTS

- Raspberry Pi 2 & 3 Model B & 4 (Raspbian/32-bit Raspberry Pi OS)
- Intel x86 PC or server
- Microsoft Windows 10
- Apple Mac OS 10.13.6 and above
- Ubuntu Linux 16.04 and above)
- BeagleBone Black Ethernet and Wireless

MEMORY AND STORAGE REQUIREMENTS

Memory : 1GB/4GB or greater, depending on version

Storage : 30MB minimum of disk or flash space



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



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

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

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