

# Triton@Device

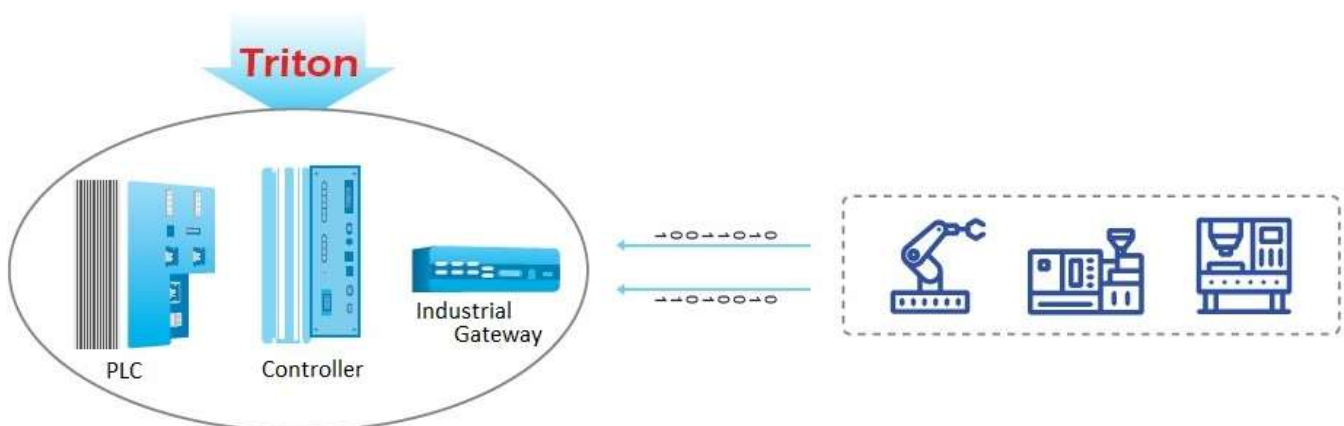
## Overview



Big data has opened an era of large-scale production, sharing and application of data, which has brought huge changes to technology and business. Data acquisition refers to the process of automatically collecting information from analog and digital measured units such as sensors and other equipment. Googoltech's Triton supports mainstream hardware architectures such as ARM and x86. It collects data in infrastructure or devices through IO signals and communication interfaces, and interconnects with Janus and Neptune to provide

a rich and flexible solution for the era of big data program.

Today, computers are widely used, the importance of data collection is very significant. Triton is a bridge connecting the computer with the external physical world. As a communication messenger for devices, edge computing and cloud platforms, Triton is a development kit tool for device control program developers. It helps developers build data channels and facilitates two-way communication between various devices and the edge or cloud. Triton is integrated by the control program and runs on the controller or host computer of the device. Through the combination of Triton and the device, the device has the ability to "communicate" with the outside world.

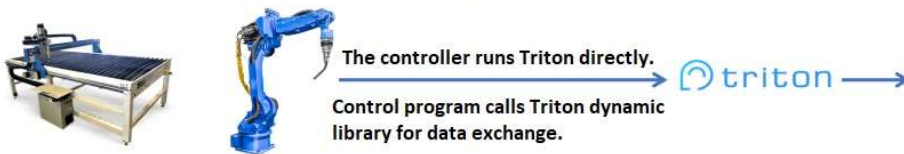


## Main Features

- Quickly realize equipment data collection and platform access;
- Provide flexible data interaction mode;
- Provide data processing functions such as data formatting, compression and encryption;
- Support data caching, Shell command parsing and execution and other advanced functions;
- Support multiple operating platforms such as Windows/WinCE /Linux /MacOS;
- Embedded software solution, can be built in various controllers, support multiple industrial bus communication protocols and development platforms, such as CoDeSys, C/C ++, Labview, Matlab, etc.
- Support running on controller and host computer.

## System Structure

### Structure 1: Controller with operating system.



### Structure 2: Controller without operating system.



## Application

- Industrial Control
- Energy
- Healthcare Industry
- Web Application
- Transportation
- Financial



Industrial Control



Energy



Healthcare Industry



Web Application



Transportation



Financial



## Specifications

Basic Function	
<ol style="list-style-type: none"> <li>1. Device control program interacts with Triton for data sending and receiving.</li> <li>2. Triton ↔ Janus/Neptune data sending and receiving.</li> <li>3. Device data processing. (formatting, compression, encryption)</li> <li>4. Data cache resend when network is abnormal.</li> <li>5. Shell command analysis and execution.</li> <li>6. File transfer.</li> <li>7. Automatic update service.</li> </ol>	
Technical Characteristics	
Operating Platform	WinCE6.0, Windows (x86/x64), Linux (x86/x64), ARmv5, ARmv6, ARmv7, AArch64
SDK Platform	Codesys (2.3/3.5), Otostudio (2.3/3.5), C/C++
Minimum Data Interaction Interval	50ms
Other Function	
Industrial Gateway	Support IO data acquisition expansion, such as RS232, RS485, Ethernet interface.
Network Communication	Modular communications, convert industrial bus communication to Ethernet, WIFI, 3G/4G.
Security Guarder	System information verification, file MD5 verification, encrypted link.
OEM Customization	Provide customized data communication solutions for equipment manufacturers. It has equipment data interaction function to establish the basis of intelligent equipment.



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