



# SecEdge™ Security Platform

FOR VARISCITE

## INTRODUCTION

**S**ecEdge™ and Variscite have collaborated to provide a chip-to-cloud, easy-to-implement, standards compliant security solution for your Variscite products.

The SecEdge platform provides a complete security solution including device-level security, zero-trust networking, and secure data control and management. SecEdge software seamlessly integrates into a cloud or on-prem environment, and its device agent, installed on the Variscite Linux SoM, ensures robust security at the edge.

See how you can achieve your secure-by-design goals here: <https://www.secedge.com/variscite-partnership/>

## SECeDGE™ DEVICE SECURITY (WITH EMSPARK™)

The EmSPARK™ Security Suite is a software solution that makes it easy for IoT device OEMs to develop, manufacture, and maintain secure and trustworthy products. With the EmSPARK Security Suite, supporting Variscite SOMs, developers can:

- + Implement a complete secure boot, update and failure recovery process.
- + Isolate and protect security credentials.
- + Prevent supply chain compromises with secure software provisioning and updates.
- + Accelerate time-to-market while reducing implementation cost.

## LEARN MORE

EmSPARK for Variscite: <https://www.secedge.com/emspark-for-variscite/>

Getting Started Guide: [https://www.secedge.com/?smd\\_process\\_download=1&download\\_id=4665](https://www.secedge.com/?smd_process_download=1&download_id=4665)

Secure Boot and Provisioning on i.MX8: [https://www.secedge.com/?smd\\_process\\_download=1&download\\_id=4695](https://www.secedge.com/?smd_process_download=1&download_id=4695)

Installation Video: <https://www.secedge.com/wp-content/uploads/2024/02/VarisciteEmSPARKGettingStartedvideo.mp4>

EmSPARK User Guide (CoreLockr Libraries Guide): [https://www.secedge.com/?smd\\_process\\_download=1&download\\_id=4351](https://www.secedge.com/?smd_process_download=1&download_id=4351)

Evaluation Kit License: <https://www.secedge.com/emspark/free-eval-kit/>

# SECeEDGE SECURE CONNECTIVITY SOLUTION (WITH MicroEdge/ControlEdge/CloudEdge)

## CHIP-TO-CLOUD SECURITY PLATFORM

The SecEdge solution delivers advanced device and chip-to-cloud security, empowering Variscite customers with a comprehensive and secure IoT/Edge ecosystem:

- + [MicroEdge](#) is installed on Variscite SoM.
- + [ControlEdge](#) is installed in a VM by Variscite customer.
- + [CloudEdge](#) is accessed by Variscite customers via APIs.

### MICROEDGE

MicroEdge is a powerful device middleware component which delivers seamless zero-touch security provisioning and end-to-end data security for a wide spectrum of embedded devices utilizing Variscite SoM modules. This innovative solution allows rapid, secure deployment of devices across a wide range of industries. MicroEdge runs in Linux on each SoM device and automatically provisions multi-tunnel connectivity to one or more CloudEdge servers. This not only enables more secure services but also opens up new monetization options for the owners of the IoT/Edge devices.

### CLOUDEDGE

CloudEdge serves as the cloud termination endpoint for MicroEdge device tunnels. Endpoint devices can be anchored to one or more peer endpoints on an external network, residing on the same administrative span of control as the MicroEdge endpoint. This external peer endpoint, known as CloudEdge, securely tunnels all external network flows. These flows undergo additional security analysis before being routed to their ultimate destination.

Variscite customers can effortlessly deploy a CloudEdge instance in their backend (VM), insuring secure connectivity for all IoT/Edge devices to their backend application server.

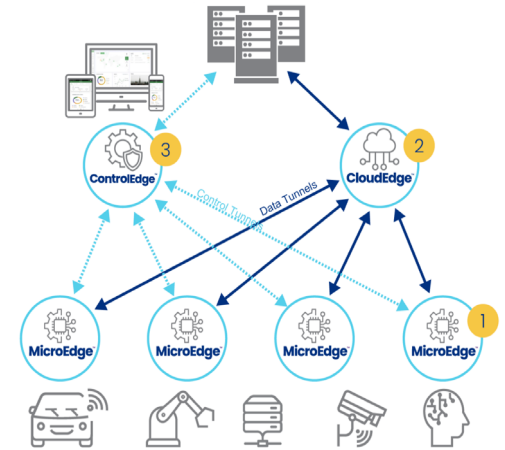
### CONTROLEDGE

ControlEdge takes charge of administering all edges within the SecEdge ecosystem, including IoT devices equipped with MicroEdge and CloudEdge servers. ControlEdge serves as the backbone to set, configure, and manage the security of the entire deployment. All connectivity and provisioning are managed by ControlEdge services, allowing transparent deployment of IPsec tunnels, ensuring secure communications between instances.

ControlEdge is easily accessible to Variscite's customers via simple APIs, providing a streamlined and efficient approach to connectivity and provisioning.

## LEARN MORE

Chip-to-Cloud Security: <https://www.secedge.com/variscite-partnership/>



#### 1 - MicroEdge™

Installed on Variscite SoM

MicroEdge is a powerful device middleware component which delivers seamless zero-touch security provisioning and end-to-end data security for a wide spectrum of embedded devices utilizing Variscite SoM modules.



#### 2 - CloudEdge™

Installed in a VM by Variscite customer

CloudEdge serves as the cloud termination endpoint for MicroEdge device tunnels. Endpoint devices can be anchored to one or more peer endpoints on an external network.

Variscite customers can effortlessly deploy a CloudEdge instance in their backend (VM), insuring secure connectivity for all IoT/Edge devices to their backend application server.



#### 3 - ControlEdge™

Accessed by Variscite customers via APIs

ControlEdge takes charge of administering all edges within the SecEdge ecosystem including IoT devices equipped with MicroEdge and CloudEdge servers.

