SECOMEA

SiteManager Embedded

Secure remote access and data collection with a single software

Secomea's SiteManager Embedded is a turnkey software gateway. As a plug-and-play solution, it's easy to install on a PC, IPC, or HMI and it operates as a secure access gateway.

Regardless of operating system, the SiteManager Embedded is activated by the same license. There are two license types to choose from: BASIC, which allows cost-effective access to the platform on which it is installed, or EXTENDED, which turns the platform into a full-featured remote access gateway.

Multiple OS and CPU support

- Windows 32/64 bit x86
- Windows Embedded x86
- Windows Compact (CE7) x86*
- Windows Compact (CE7) ARM*
- Linux x86 (various distros)
- Linux ARM Raspberry Pi
- Linux ARM (various distros) *
- VxWorks ARM*

* May be subject to custom integration.

Key Features

Connect multiple devices simultaneously

Connect up to 10 devices of all types of industrial equipment via UDP/TCP, using the equipment's native protocols (e.g. Modbus, PROFINET, EtherCAT; Ethernet/IP etc.).

Easy & firewall friendly Internet access

Enable secure connectivity to the Internet through the firewall of the existing network infrastructure, such as Ethernet, 4G, WiFi, etc.

Intelligent Data Collection Module (DCM)

The Linux version can also collect data from field devices (via OPC UA, Modbus, TCP, Siemens S7, Ethernet/IP, MQTT protocols) and send it for processing to your chosen cloud solution, such as Microsoft Azure IoT Hub, Amazon AWS IoT Core, Software AG Cumulocity IoT, Aveva Insight, etc.

SiteManager Embedded
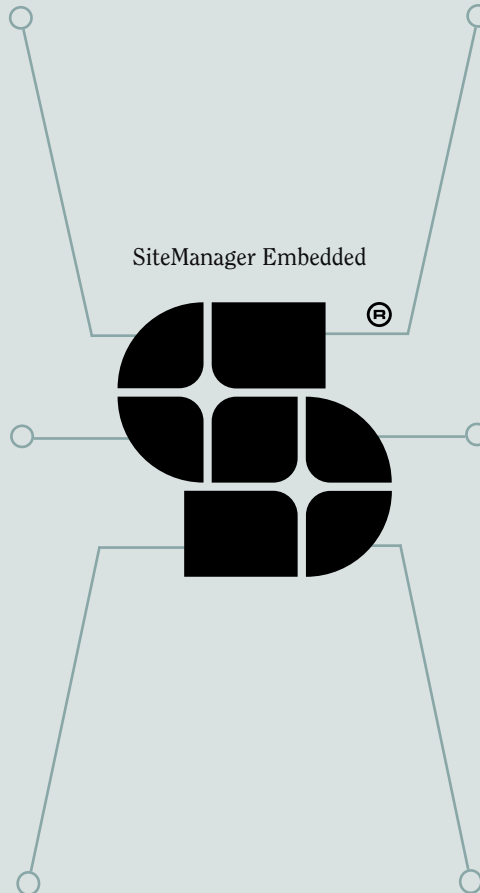
Flexible license activation

Install, configure and connect to a GateManager M2M server at no cost. The activation license can be applied remotely from the GateManager with a single click when needed.

Static tunnel connection

Get a persistent network connection by easily setting up the traffic direction (Pull and/or Push) and IP restrictions for maintaining a high level of security. No routing, firewall or tunnel configuration is required. No need for public addresses exposed on the Internet, no dependency on static IP addresses, and no problem with conflicting IP subnets at remote sites.

Integrated Web UI and full API

All features of the integrated Web GUI can be managed via a JSON API, allowing the native UIs or applications to fully configure, control, and monitor status from the SiteManager Embedded application.

Technical Specifications

Monitoring and logging features

- Automatic event logging on GateManager
- Alert notifications based on the SiteManager status sent as an email or SMS centralized from the GateManager
- Local JSON API for integration into other applications on the platform.

Configuration and management

- Configuration backup management (via GateManager), including scheduled backup and fast replacement (cold backup)
- Configuration via local Web GUI, via JSON API, or file on the platform (Windows Registry or Linux text based config file)
- Pre-defined device agents for easy setup of access to all PCs, web devices, and all common PLCs and HMIs.

Integrated Data Collection Module (DCM)

(Available as Linux x86 and Raspberry Pi versions)

Collector protocols (Ethernet):
- OPC UA, Modbus TCP, Siemens S7, EtherNet/IP, MQTT, http get (json, xml, etc.), Simulator

Data server (Cloud) protocols:
- Microsoft Azure IoT Hub, Amazon AWS IoT Core, Software AG Cumulocity IoT, Aveva Insight, Alibaba/Aliyun, Schneider Machine Advisor

Edge computing capabilities:
- Aggregations (avg, max/min, compute etc.)
- Event-triggered alarms

Store and forward capacity:
- Uses the platform's available flash/disk storage

Static LogTunnel connections

- The LogTunnel Client option allows push or pull of data from devices to a central server, such as SCADA or logging system.
- The LogTunnel Master option allows a single SiteManager Embedded installed on a central server (e.g. SCADA), to receive data (push) concurrently from multiple devices over UDP/TCP via LogTunnel clients on remote SiteManager Embedded or Hardware models simultaneously.
- On Linux, the LogTunnel Master can be configured on a central server (e.g. SCADA) to allow central applications to connect simultaneously with TCP to multiple remote devices via LogTunnel Clients on SiteManager Embedded or Hardware models.

Custom integration SDK

- The standard available versions can be installed on multiple platforms. The Raspberry Pi version can be used for other ARM-based platforms as is.
- Custom build for specific target platforms can be based on special agreements. This will typically require Secomea engineering to receive a tool chain for the platform and the target device.
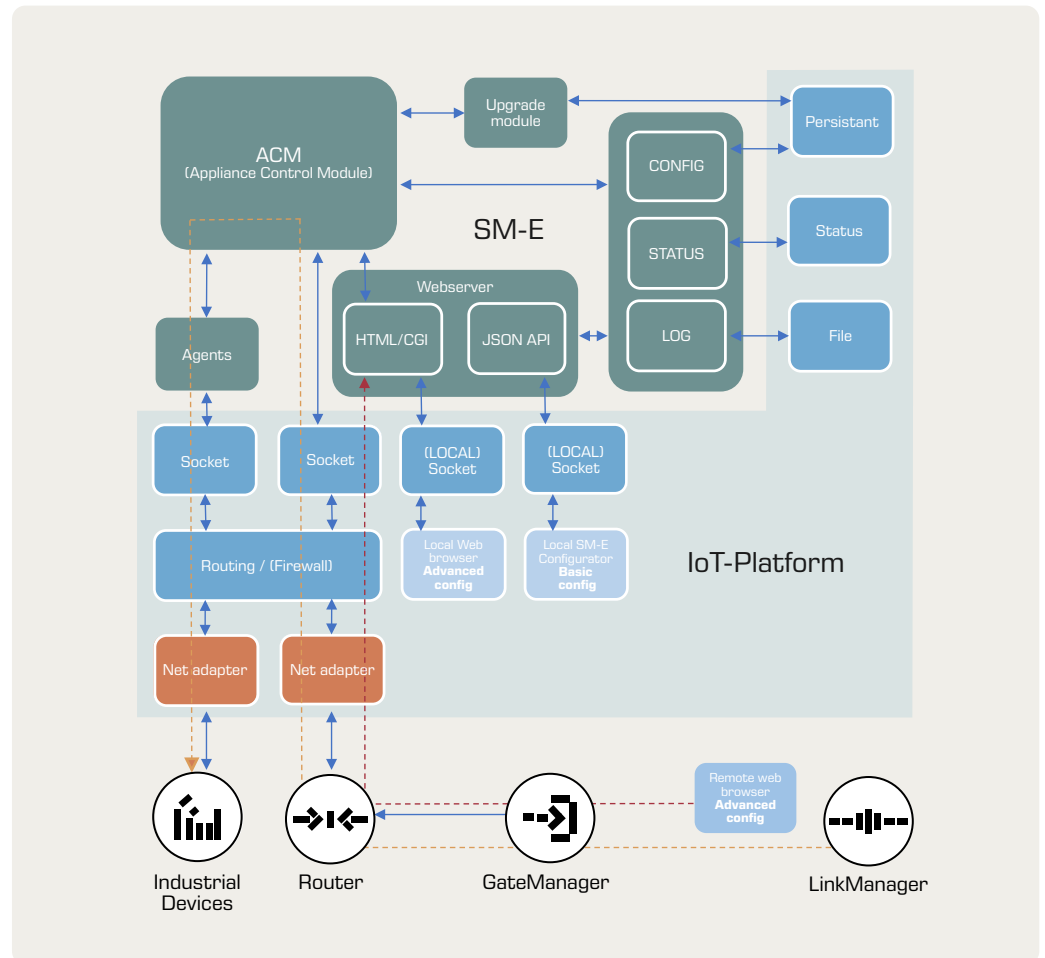
SiteManager Model Comparison	SiteManager (hardware version)	SiteManager Embedded with BASIC license	SiteManager Embedded with EXTENDED license
Remote access to IP devices (UDP/TCP)	Yes	Yes	Yes
Remote access to USB/Serial/Layer2 devices	Yes	No	No
Tunneling access to ENTIRE remote network	Yes	Yes	Yes
Number of individual device agents	Up to 100	2	Up to 10
Access Gateway for other IP devices	Yes	No	Yes
Data Collection Module (DCM)	Yes	No	Yes*
Configurable forwarding/routing rules	Yes	No	No
Autodetection of Ethernet and USB devices	Yes	No	No
LogTunnel Client support	Yes	Yes	Yes
LogTunnel Master Push support	Yes	No	Yes
LogTunnel Master Pull support	Yes	No	Yes*

*Available for Linux Only