

SiteManager 15xx/35xx Series

Secure remote access and data collection in a single device

Secomea's SiteManager is a turnkey IIoT Gateway. As a plug-and-play edge gateway, it's easy to connect to any OT/ICS asset (PLC, HMI, SCADA) for full data tunneling support (UDP, TCP, USB), even with legacy equipment (Serial connection, Layer2 communication, etc.).

The SiteManager 15xx/35xx series is a robust, DIN mountable industrial gateway that you install in machine control panels to provide remote access for real-time servicing of industrial equipment.

As an additional feature, the SiteManager is capable of data collection, which allows service engineers to perform detailed cloud analysis for predictive and preventive maintenance of connected equipment.



Easy to Set Up, Intuitive to Use

- Incorporated setup assistant
- Single click configuration
- DHCP-enabled
- Alert capabilities between devices and servers
- Built-In firewall
- Intrinsic troubleshooting functionality
- Intuitive user experience

Architecture & Key Features

Connect multiple IIoT devices simultaneously

Connect up to 100 devices of all types of industrial equipment via Ethernet, Serial, or USB ports, using the equipment's native protocols (e.g., Modbus, PROFINET, EtherCAT; Ethernet/IP etc.).

Collect data from industrial equipment

Collects data from industrial devices via OPC UA, Modbus, TCP, Siemens S7, Ethernet/IP, MQTT protocols. Send the raw data for further analysis and processing to your chosen cloud solution, such as Microsoft Azure IoT Hub, Amazon AWS IoT Core, Software AG Cumulocity IoT, Aveva Insight, etc.

Easy & firewall friendly Internet access

Enable secure connectivity to the Internet through the firewall of the existing wired network infrastructure and wirelessly by 4G/LTE Global modem or via WiFi. EcoStruxure Machine Advisor, etc.



Persistent store-and-forward database

Collected data is cached in the SiteManager to limit data loss in case of unstable connection or power loss. The integrated Flash memory extends the RAM-based store-and-forward database, and the offline period can be further expanded by inserting an SD-Flash card.

Static tunnel connection

Get a persistent network connection by easily setting up the traffic direction (Pull and/or Push) and port/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.

Digital ports for remote access safety

Digital input allows operator control of remote access, e.g., via a physical switch, and digital output enables signaling active access sessions, e.g., via a light-tower.

Technical Specifications

Electrical Properties

- 800 Mhz ARM Cortex A7 MCU
- Input 12 – 24 V/DC, via screw terminals
- Network Interfaces: 4 x 10/100 Mbit Ethernet (1 x UPLINK, 3 x DEV,) – RJ45 connection
- 1 x USB 2.0 full speed (Host)
- 1 x RS232 DB9 Serial port with full flow control
- Power consumption: max 5W excl. any optional USB devices (Calculate with a total of 8W incl. USB devices)
- 2 x digital input ports
- 1 x output relay (max 0.5A), 1 x digital output open drain (max 0.2A)
- Micro SD card slot for DCM store-and-forward
- 1539/3539 models only: Integrated broadband modem with external standard polarity female SMA connector and Micro SIM push-pull slot
- 1549/3549 models only: Integrated WiFi module with (IEEE 802.11 b/g/n/ac) 2.4/5 GHz support and external female RP-SMA connector

Regulations

- Europe: CE, RED
- North America: FCC 47 cfr part 15, CAN ICES-3 (A)/NMB-3(A), UL/cUL Listed (file #E358541, ITE 4ZP8), IEC CB certified (DK-30193-A2-UL)
- Japan: Giteki
- Korea: RC (xx29 models only)
- Australia: RCM
- General: RoHS, REACH

Please refer to the separate Declaration of Conformity documents for more information

4G Global Modem specs (1539/3539 models)

LTE Regions Supported:

Europe, North America, Asia, Australia, South America, Africa, APAC

For regional specifications, please refer to Secomea's Knowledge Base at

<https://kb.secomea.com/>

LTE bands:

B1 (FDD 2100) IMT, B2 (FDD 1900) PCS
 B3 (1800 +) DCS, B4 (1700) AWS
 B5 (850) CLR, US Korea etc. B7 (2600) IMT-E
 B8 (900) E-GSM, B12 (700) US, B13 (700c) USMH,
 LSMH US, LSMH US, B18 (800 or 850) Japan #4,
 B19
 (800 or 850) Japan #5, B20 (800) Digital Dividend,
 B25 (1900 G Block), B26 (850+) Extended CLR,
 B28
 (700 APT) APAC B34(TDD), B38 (TDD 2600)
 IMT-E,
 B39 (TDD 1900 +) China, B40 (TDD 2300) China,
 B41
 (TDD 2500) BRS/EBS, B66/TDD)

WCDMA/UMTS band:

B1 (2100) IMT, B2 (1900) PCS, B4 (1700) AWS-1
 B5 (850) CLR, B6 (850) Japan #1, B8 (900) E-GSM
 B19 (800) Japan

GPRS/EDGE bands:

B2(1900), B3(1800), B5(850), B8(900)

Modem Certifications * / Carriers:

US/North America: FCC, PTCRB, IC (AT&T, Rogers)
 China: CCC, CTA, TA (NCC)

Australia: RCM

Europe: CE RED, GCF

Japan: Jate, Giteki, Telec (Via MVNO carriers: NTT
 Docomo, au/KDDI, Soft-bank

For connection to direct subscriptions to these carriers, you may need the region specific 4G-JP model.

Physical Properties

- Operating temperature: -25 to +60 °C (-13 to 140 °F) 5 to 95% RH. Storage temperature: -40 to +60 °C (-40 to 140 °F) 5 to 95% RH
- Dimensions, unpacked:
 - Height: 107 mm (4 1/5 inches)
 - Width: 32 mm (1 1/4 inches)
 - Depth: 97 mm (3 4/5 inches)
 - Weight: 500 grams (17.63 ounces)
- Metal case, IP20, DIN mountable
- Operating altitude up to 2000m
- Storage altitude up to 3000m
- 2-year warranty

Networking Capabilities

- Choice of Uplink (WAN) Internet access:
 - Ethernet,
 - 1549/3549 models only: Integrated WiFi in Client or AP mode
 - WiFi Client or AP mode via USB adapter (not included)
 - 1539/3539 models only: Integrated Cellular modem
 - Cellular via USB modem (not included)
- Choice of Uplink IP-assignment mode: DHCP client, PPPoE client, manual/static
- Telnet to Serial routing (rfc2217). Siemens MPI/PPI is supported via an adapter
- DHCP server on Device LAN by Ethernet or as access point via WiFi
- USB port for remote accessing USB-enabled devices (directly or via USB hub)
- Support for remote access by any UDP/TCP based protocol including Layer 2
- Secomea LogTunnel support for easy setup of remote SCADA logging infrastructure

Monitoring and Logging Features

- System log with System Watchdog
- Automatic event logging on GateManager
- Alert notifications generated by the SiteManager or the GateManager and sent as an email or

- SMS locally or centralized from the GateManager
- 1539/3539 models only: Bi-directional SMS Gateway support via Serial AT commands and UDP/TCP script commands
- Advanced troubleshooting functionality for automatic discovery of networking conflicts and configuration issues

Configuration and Management

- Appliance Launcher for easy initial contact and connection to GateManager
- Configuration and maintenance of SiteManager via browser (HTTPS/SSL – local or remote from GateManager)
- Includes a Setup Assistant Wizard for guided configuration via the Web GUI
- Easy configuration with pre-defined configuration using a USB stick
- Configuration backup management (via GateManager), including scheduled backup and fast hardware replacement (cold backup)
- Configuration export and import (XML)
- Pre-defined Device Agents for easy setup of access to all PCs, web devices, and all commonPLCs and HMIs
- Unique device scanning feature for automatic detection of IP and USB devices and configuration with a single click

LED Signalling and I/Os

- 4 LEDs for signalling Power, Status, Wireless uplink status, and LinkManager connection
- Digital input port for site operator control of remote access
- Digital or Relay output for signalling active LinkManager connections, and GateManager connection status
- Configurable digital input port for custom Email/SMS alert triggering
- Output port for custom toggling from the SiteManager GUI

Integrated Data Collection Module DCM

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

Edge computing capabilities:

- Aggregations (avg, max/min, compute etc.),
- Event triggered alarms

Store and forward capacity:

- 80MB internal Flash
- + 64GB via inserted SD memory card (not included)

| SiteManager Model | Integrated 4G-Global | Integrated WiFi | No. of Device Agents | Part number |
|-------------------|----------------------|-----------------|----------------------|---------------|
| 1529 / 3529 | No | No | 10 / 100 | 32209 / 32210 |
| 1539 / 3539 | Yes | No | 10 / 100 | 32221 / 32222 |
| 1549 / 3549 | No | Yes | 10 / 100 | 32102 / 32103 |

*Note: Certifications apply to the embedded modem and may not apply when combined with the SiteManager.