SITEMANAGER 15xx/35xx SERIES

CORRECTIVE PREVENTIVE PREDICTIVE
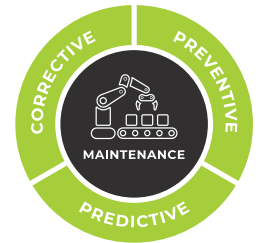MAINTENANCE

Secure Remote Access and Data Collection in One Device

SiteManager is a security certified IIoT Edge Gateway in the Secomea Industrial Communications Solution programme that ensures unified, uninterrupted and secure access to remote industrial equipment.

The SiteManager 15xx/35xx series is a robust, DIN mountable industrial gateway that you install in machine control panels to provide remote access for on-demand, 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

- Built-in setup assistant
- Single click configuration
- DHCP-enabled
- Alert capabilities between Devices and servers
- Security certified and built-In firewall
- Unique built-in troubleshooting functionality
- Intuitive user experiencee

Architecture & Key Features

Connect multiple 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.).

Intelligent Data Collection Module
Collects data from field devices via e.g. Modbus OPC UA, CIP or S7, and pushes relevant data to popular clouds such as Azure, AWS, EcoStruxure Machine Advisor, Secomea DCC etc.

Easy & firewall friendly Internet access
Establishes access to the Internet through the firewall of the existing wired network infrastructure, and wirelessly by 4G/ LTE Global modem, or via WiFi.

Persistent store-and-forward database
Integrated Flash memory extends the RAM based store-and-forward database to ensure data integrity for not only loss of Internet access, but also power-loss. The offline period can be further extended by inserting a SD-Flash card.

Drag & drop SCADA tunnelling setup
LogTunnel support provides static tunnel connections to a central SCADA system, which operates concurrently with other services, such as on-demand access and data collection module.

3 port integrated managed switch
3 DEV/LAN ports configurable as bridged (normal switch) or individually managed ports with separate DHCP servers.

STATUS
UPLINK2
CONNECT
POWER

UPLINK
DEV3
DEV2
DEV1

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SiteManager

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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

(Refer to separate Declarations of Conformity document for details)

- 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

4G Global Modem specs (1539/3539 models)

(for regional specific 4G-US, 4G-CH, 4G-JP, 4G-EU models, refer to Secomea knowledge base for details)

LTE Regions Supported:
Europe, North America, Asia, Australia
South America, Africa, APAC

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, B17 (700bc) USMH, 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 spefic 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 SiteManager or GateManager and sent as email or SMS locally or centralised from the GateManager

- 1539/3539 models only: Bi-directional SMS Gateway support via Serial AT commands and UDP/TCP script commands

- Advanced trouble-shooting 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 common PLCs 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):

- Modbus, OPC UA, Siemens S7, Rockwell CIP/Ethernet/IP, http get (json, xml etc.), Simulator

Data Server (Cloud) protocols:

- WS, Azure, Schneider Machine Advisor, Cumulocity, 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	Partnumber
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 SiteManager.

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