

SiteManager™ 35xx series

Secure High-Availability Remote Access to Industrial Devices



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 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 Experience

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 Cloud Data Collection Module

Collects data from field devices via e.g. Modbus and OPC UA, and via smart-aggregation and even triggers, 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 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.



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
- **3539 model only:** Integrated broadband modem with external standard polarity female SMA connector and Micro SIM push-pull slot
- **3549 model only:** Integrated WiFi module with 2.4/5 GHz support and external female RP-SMA connector

Regulations

- CE, RCM Compliant
- 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

Modem specs (3539 model only)

4G EU (EMEA) modem specs:

- LTE Bands: B1 (2100), B3 (1800), B7 (2600), B8 (900), B20 (800DD), B38 (TDD 2600), B40 (TDD 2300)
- WCDMA/UMTS Bands: B1 (2100), B8 (900)
- GPRS/EDGE: B10 (900), B13 (1800)
- Certifications: CE, GCF (in planning)

4G US (USA) modem specs

- LTE Bands: B2 (1900), B4 (1700/AWS), B5 (850), B17 (700)
- WCDMA/UMTS bands: B2 (1900), B5 (850)
- Certifications: FCC, PTCRB, IC, AT&T, Rogers *

4G CN (China) modem specs

- LTE Bands: B1 (FDD 2100), B3 (FDD 1800), B7 (FDD 2600), B38 (TDD 2600), B39 (TDD 1900), B40 (TDD 2300), B41 (TDD 2500)
- WCDMA/UMTS bands: B1 (2100), B8 (900)

- TD-SCDMA: B34 (2010-2025), B39 (1800-1920)
 - GPRS/EDGE: B10 (900), B13 (1800)
 - Certifications: CCC, TA, CTA, NCC
- 4G JP (Japan) modem specs*
- LTE Bands: B1(2100MHz)/B3(1800MHz)/B8(900MHz)/B26(800MHz,B18/19)
 - Certifications: Telec, Jate
 - Carriers: NTT Docomo, AU, Softbank

Physical Properties

- Operating temperature: -25 to +55 °C (-13 to 131 °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
 - Integrated WiFi (IEEE 802.11 b/g/n/ac) in Client or AP mode (3549 model only)
 - WiFi (IEEE 802.11 b/g/n) via USB adapter
 - Cellular
- 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
- **Integrated Data Collection Module (DCM) supporting Modbus and OPC UA protocols, smart aggregation rules, event-triggers and various clouds, e.g. Azure and AWS. (Refer to separate DCM product information)**

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
- **3539 model 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

SiteManager Model	Integrated 4G	Integrated WiFi	No. of Device Agents
3529	No	No	100
3539 4G EU	Yes	No	100
3539 4G US	Yes	No	100
3539 4G CN	Yes	No	100
3539 4G JP	Yes	No	100
3549	No	Yes	100

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