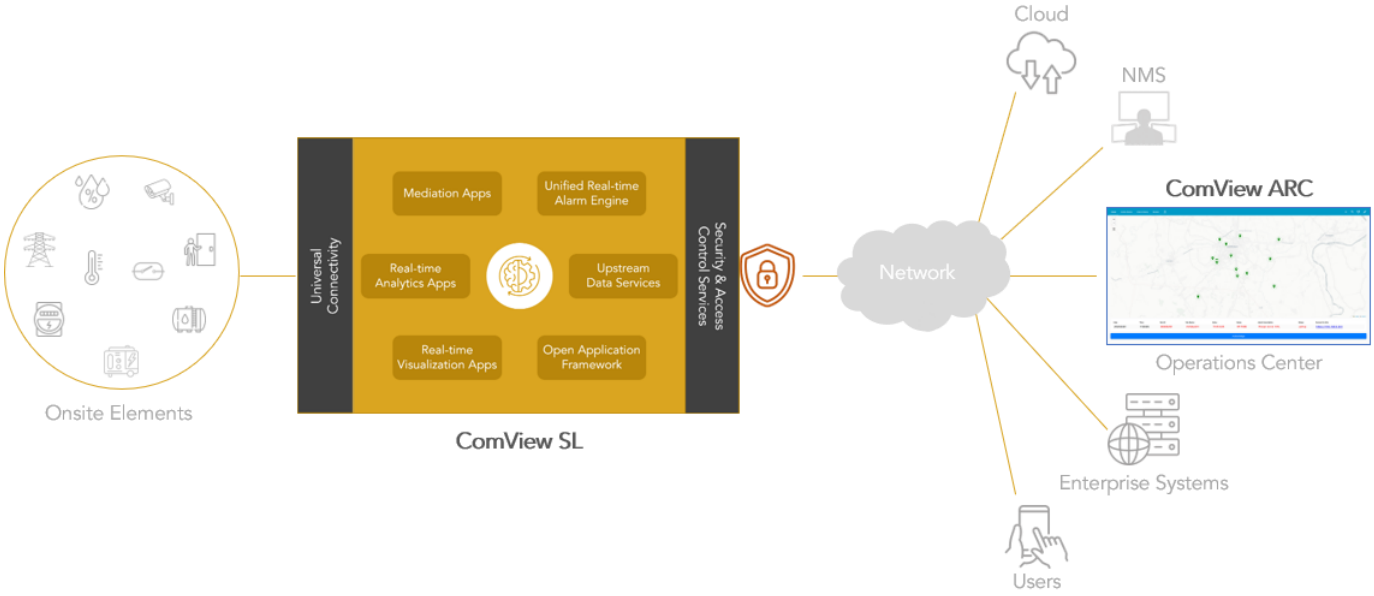
ComView SL

Unified Edge Intelligence for Diversified Remote Sites

ComView SL is a modular, extensible Linux-based edge platform designed for diversified remote sites requiring a smaller connectivity footprint. It consolidates data acquisition, protocol handling, conversion, alarm monitoring, and analytics into a single operational environment, with normalized telemetry for real-time processing and upstream system integration.

ComView SL uses the same open application framework as ComView NX—supporting Python-based applications, IPC, MQTT, and REST APIs—while providing a reduced set of serial, I/O, and console interfaces appropriate for smaller sites. The platform supports standardized alarms, automated actions, and structured data delivery to NOC, cloud, and enterprise systems.



Core Platform Capabilities:

- Universal device mediation
- Data acquisition and conversion
- Unified alarm monitoring
- Edge analytics and rule-based automation
- Modular, multi-application architecture supporting concurrent apps
- Extensible application framework (Python apps, IPC, MQTT, REST APIs)
- Upstream integration with NOC, cloud, and enterprise systems

Representative Users and Applications:

- System integrators/distributors (IT/network/cellular)
- Cellular site operators
- Managed service providers (MSPs)
- Corporate network/IT Operations teams
- Micro data centers/edge IT sites
- Any remote site monitoring/management

Hardware Highlights:

Processing & Memory
- Quad-core Cortex-A72 64-bit CPU @ 1.5 GHz
- 2 GB RAM and microSD card

Networking
- 1x 1 Gb Ethernet

Supports backhaul connectivity and TCP/UDP-based mediation, monitoring, and analytics

System Control & Indicators
- RTC with lithium battery backup
- Supervisory & reset controller
- Multi-functioned reset pushbutton
- LED indicators: Power, Status, Alarm

Digital Inputs
- 4x non-isolated dry-contact inputs

Supports monitoring of contact-based site elements, with automated corrective actions via output relays or user scripts

Relay Outputs
- 6x SPDT (Form C) relays
- Rated 10 A @ 250 VAC

Supports interactive control and automated activation through alarm-driven actions or user scripts

Analog Inputs
- 2x isolated analog channels
- 12-bit A/D converter
- 72 V, 36 V, 18 V, Vin, 4–20 mA

Supports analog measurement, digital filtering, data mapping, alarm monitoring, data logging, and real-time analytics

1-Wire Interface
- 1-Wire bus
- 5V power supply

Supports up to 8x 1-Wire digital temperature thermometers

RS-232 Serial Interfaces
- 1x console for local access

RS-485 Serial Interfaces
- 1x isolated RS-485 port
- 8x Modbus devices

Supports mediation with Modbus devices, data polling, data conversion, data logging, alarm monitoring, and analytics

USB
- 2x USB 3.0
- 2x USB 2.0

Supports external USB-connected devices such as cameras, storage devices, audio adapters, and other peripherals

Power
- 9-12Vdc/25W, ~ 5W typical
- Circular DIN + 2-pin screw terminal block

Supports redundant power input

Physical
- Aluminum enclosure, dual-tone grey
- Wall mount, desktop
- Dimensions: 9.17″ × 6.3″ × 1.72″ (W × D × H)
- Weight: approx. 1.6lb (0.7kg)

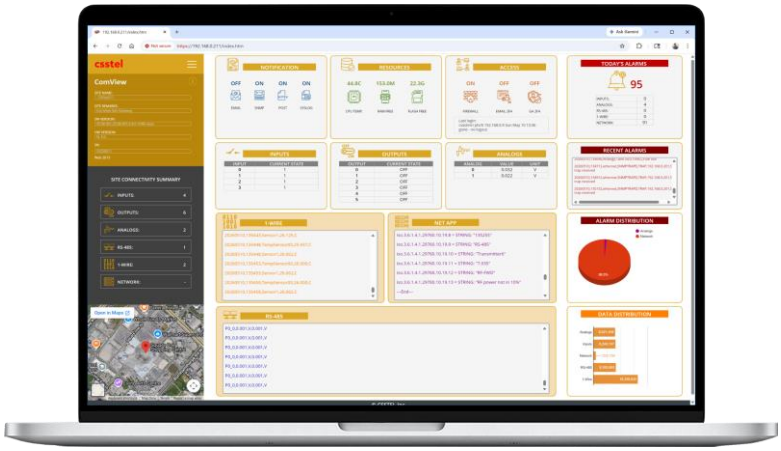
Environment
- Temperature: 0 – 40°C
- Humidity: 10% to 90% RH, non-condensing

MTBF
5.7 yrs at 25°C, MIL-HDBK-217F, Ground Benign

Software Highlights:

Universal Connectivity
ComView SL supports a broad range of physical interfaces — digital inputs, relay outputs, analog channels, 1-Wire sensors, RS-485/Modbus, and network-based devices. This enables the platform to function as a universal connectivity hub for onsite elements ranging from simple sensors to complex, protocol-driven systems.

Upstream Data Services
ComView SL provides structured CSV-formatted data records to simplify upstream processing by NMS, analytics platforms, or enterprise systems. The platform supports automatic data push to remote file servers for archival or batch processing and publishes real-time telemetry via MQTT for time-sensitive applications.



Mediation Apps
Mediation Apps interface with external equipment and convert raw measurements or protocol-specific data into normalized, CSV-formatted records. These records provide a consistent data model for alarm evaluation, performance analytics, and automation across diverse device types.

Real-time Analytics Apps
Analytics Apps process CSV-formatted data locally to generate performance metrics for specific site elements. Calculations, rate-of-change analysis, and threshold evaluation are performed in real time to support onsite decision logic and upstream reporting.

Unified Real-time Alarm Engine
The alarm engine evaluates user-defined conditions, executes corrective actions through relay outputs or user scripts, and distributes alarms to multiple destinations. Supported delivery methods include email, SNMP v1/v2c/v3 traps/informs, HTTP POST, Syslog, and MQTT messaging. Alarm cool-down windows and alarm-cleared notifications help reduce operational overhead and false-positive cycles.

Security & Access Control Services
Security services include SSL-encrypted communication channels, inactivity-timeout logout, restrictive IP-filtering firewall, two-factor authentication (email or Google Authenticator), and password quality/lifecycle enforcement. These controls support secure remote administration and protect access to onsite systems.

Open Application Framework
The platform is built on a 64-bit Ubuntu Server OS with an NGINX web server, Flask application layer, and Python-based modular architecture. REST API support enables programmatic access to data, configuration, and user-developed applications. The framework leverages widely available Linux development tools, enabling straightforward customization and extension.

Ordering Information:

Model: ComView SLx
Part Number: 100-870000

> Contact us for details on supported sensors, peripherals, and systems—or to review your operational requirements

ComView is developed by CSSTEL, a team specializing in remote-site monitoring, mediation, and operational intelligence.

In addition to the standard platform, CSSTEL provides software customization to align ComView with the operational requirements of MSPs, Operations teams, and specialized service environments.

The platform is also available in white-label and OEM configurations for organizations integrating ComView into their own products, service portfolios, or managed offerings.

Specifications and capabilities are subject to change without notice

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