Logivyx

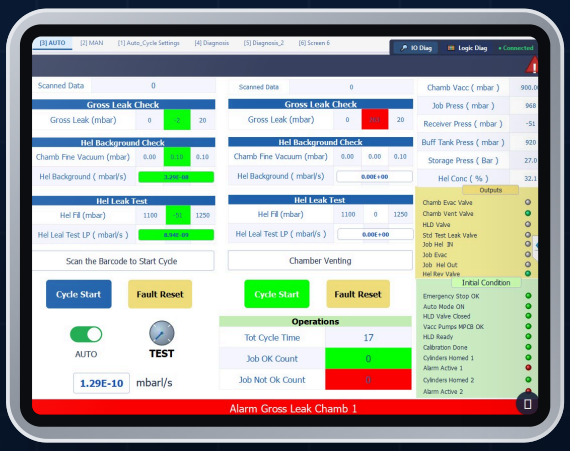
PRODUCT CATALOG · 2026

15″ & 17″ INDUSTRIAL PANEL PC · INTEL CORE · HMI + SOFT PLC

StationCore 15 · 17

The operator station is the controller.

Fanless Intel® Core™ industrial panel PCs with large projected-capacitive touch screens, six COM ports and dual Gigabit LAN — running Windows and the Logivyx Runtime, so a full line-level SCADA view and the machine's control logic live on one station.



STATIONCORE 15 · 1024×768



STATIONCORE 17 · 1280×1024

Intel Core i3 · i5 · i7
7th generation, fanless

6 × COM · 2 × GbE
RS232 / RS485 field links

Windows 10 / 11
Logivyx Runtime pre-loaded

VISUAL LOGIC.
ZERO CODE.

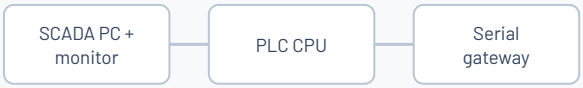
PRODUCT OVERVIEW

Big-screen SCADA and control in one fanless station.

StationCore is the flagship of the Logivyx panel family: an x86 industrial panel PC sized for the operator desk or cabinet door of a whole line. It arrives with Windows and the Logivyx Runtime installed and licensed — multi-station overviews, trends, recipes and reports on a large touch screen, and the embedded Soft PLC running the machine underneath.

THE CONVENTIONAL LINE

SCADA PC + PLC + serial gateway



Three platforms · three tools · tags kept in sync by hand

- ✕ Office PC hardware on the shop floor
- ✕ SCADA and PLC licences bought separately
- ✕ Fans and filters to service, more cabinet space

THE STATIONCORE WAY

One rugged station runs the line



One project · one licence · one fanless station

- ✓ PLC CPU and serial gateway removed from the BOM
- ✓ Industrial, fanless, built for 24/7 duty
- ✓ Whole-line overview on a 15″ or 17″ screen

15″ · 17″
10-point PCAP touch, 450 nits, 1000:1

i7 max
Intel Core 7th gen i3 / i5 / i7 options

6 COM
COM1–2 RS232/RS485, COM3–6 RS232

32 GB
Max RAM · M.2 NVMe + 2.5″ SATA storage

WHAT YOU GET

Industrial panel PC

Fanless aluminium chassis with a 15″ or 17″ touch display, panel- or VESA 100-mountable.

Logivyx Runtime, pre-loaded

HMI/SCADA runtime with embedded Soft PLC installed on Windows, licence activated for the station.

Edit on the station

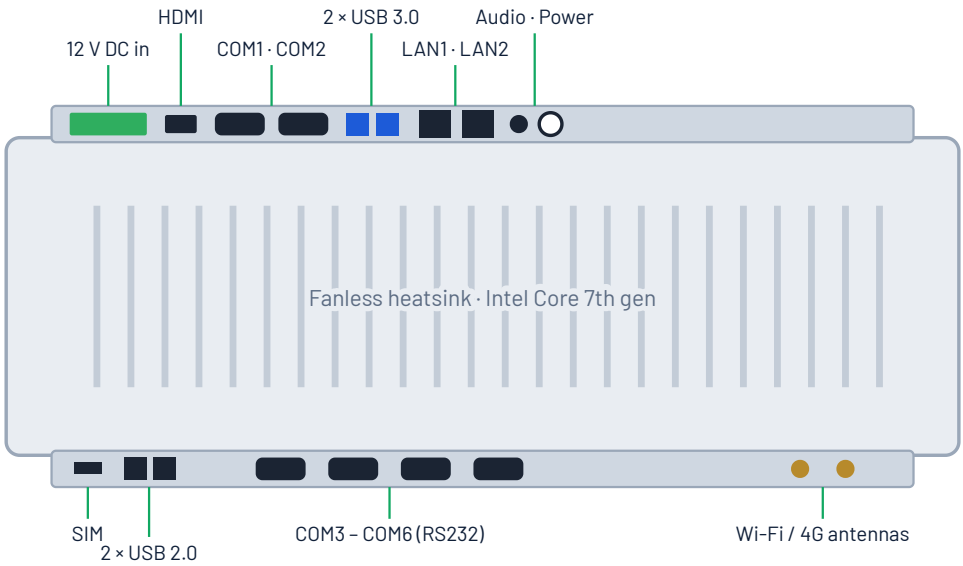
Windows 10/11 means Logivyx Studio can also be installed on the station for on-site changes (optional licence).

HARDWARE

PC performance, industrial construction.

A metal chassis with a finned heatsink for passive cooling — no fans, no filters — around an Intel Core platform with the serial, network and expansion interfaces that factory equipment still depends on.

STATIONCORE · REAR I/O (SCHEMATIC)



Intel Core i3 / i5 / i7

7th-generation Core processors; one SO-DIMM slot, up to 32 GB RAM.

Fanless & silent

Passive heatsink cooling, no moving parts — lower maintenance and longer life in 24/7 duty.

Six COM ports

COM1/COM2 selectable RS232 or RS485; COM3–COM6 RS232 — for instruments, scanners and legacy machines.

Dual Gigabit LAN

2 × Realtek RTL8111H with Wake-on-LAN and PXE — plant network and machine network apart.

Fast storage

M.2 2280 M-key SSD (SATA or NVMe), 128 GB – 2 TB, plus a 2.5″ SATA bay for a second drive.

Wi-Fi, BT & 4G ready

M.2 2230 E-key for Wi-Fi/BT and a mini-PCIe slot for Wi-Fi or a 4G module (SIM slot on board).

Watchdog & recovery

255-level programmable watchdog (reset or interrupt), one-key restore and diskless-boot support.

Bright PCAP touch

10-point projected-capacitive touch over a 450-nit, 1000:1 LED-backlit industrial LCD.

Two sizes, one platform. StationCore 15 (1024 × 768, 4:3) and StationCore 17 (1280 × 1024, 5:4) share the same motherboard, I/O and software — choose by viewing distance and screen content.

Built-in audio. Two 8 Ω / 2 W speakers and a combo audio jack for audible alarms, operator prompts and video instructions.

SOFTWARE ON BOARD

Logivyx Runtime on Windows, ready on first power-up.

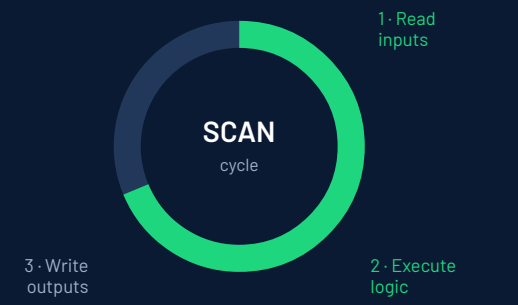
StationCore ships with Windows and the full Logivyx Runtime — the HMI/SCADA engine and embedded Soft PLC — installed and licensed. The large screen lets one project show a whole line at full detail: every station, trend and alarm on one page.

THE CORE USP

Embedded Soft PLC — on the station

A deterministic, cyclic logic engine runs inside the runtime: it reads inputs, executes your Main routine and writes outputs every scan — with scan-time and overrun monitoring, retentive variables and STARTUP / SHUTDOWN routines. Program it in Structured Text, Ladder or the graphical Sequence designer.

Structured Text · Ladder · Sequence · PID · Timers · Counters · CiA 402 motion



Line-level SCADA

30+ widgets — trends, dual-axis and X-Y charts, grids, P&ID graphics, alarm banner and history — at 15″ / 17″ detail.

Data, recipes & reports

SQLite logging with batch keys and CSV export, multi-profile recipes, tag-triggered PDF reports, SQL Server read/write.

Serial devices, natively

Modbus RTU and raw-serial / ASCII drivers bind directly to COM1–COM6 — scanners, scales and instruments without gateways.

Online diagnosis

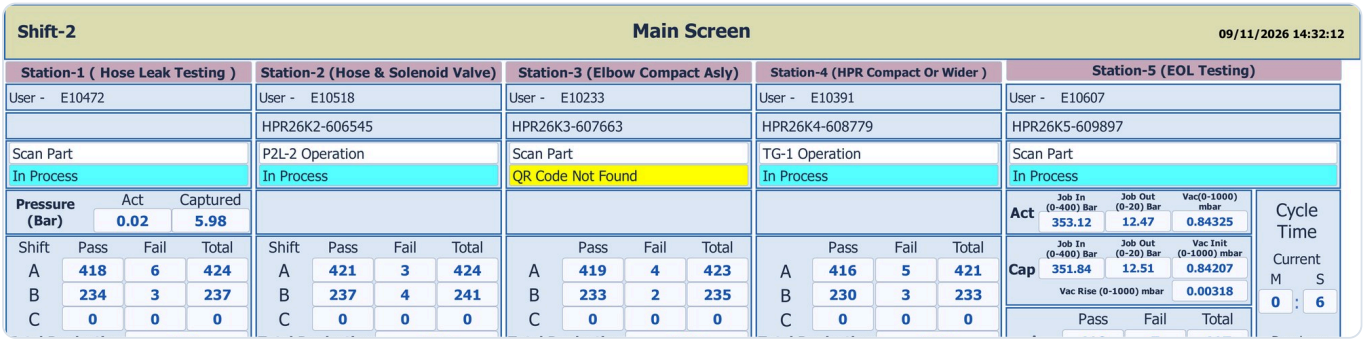
Live ladder, live sequence steps, IO Diagnosis and watch window with forcing — troubleshoot from the operator station.

Security built in

User groups, hashed passwords and screen-, dialog- and widget-level authorisation for audit-friendly operation.

Web & mobile viewer

Read-only live mirror of the station's screens in any browser or Android device; OPC UA server for MES.

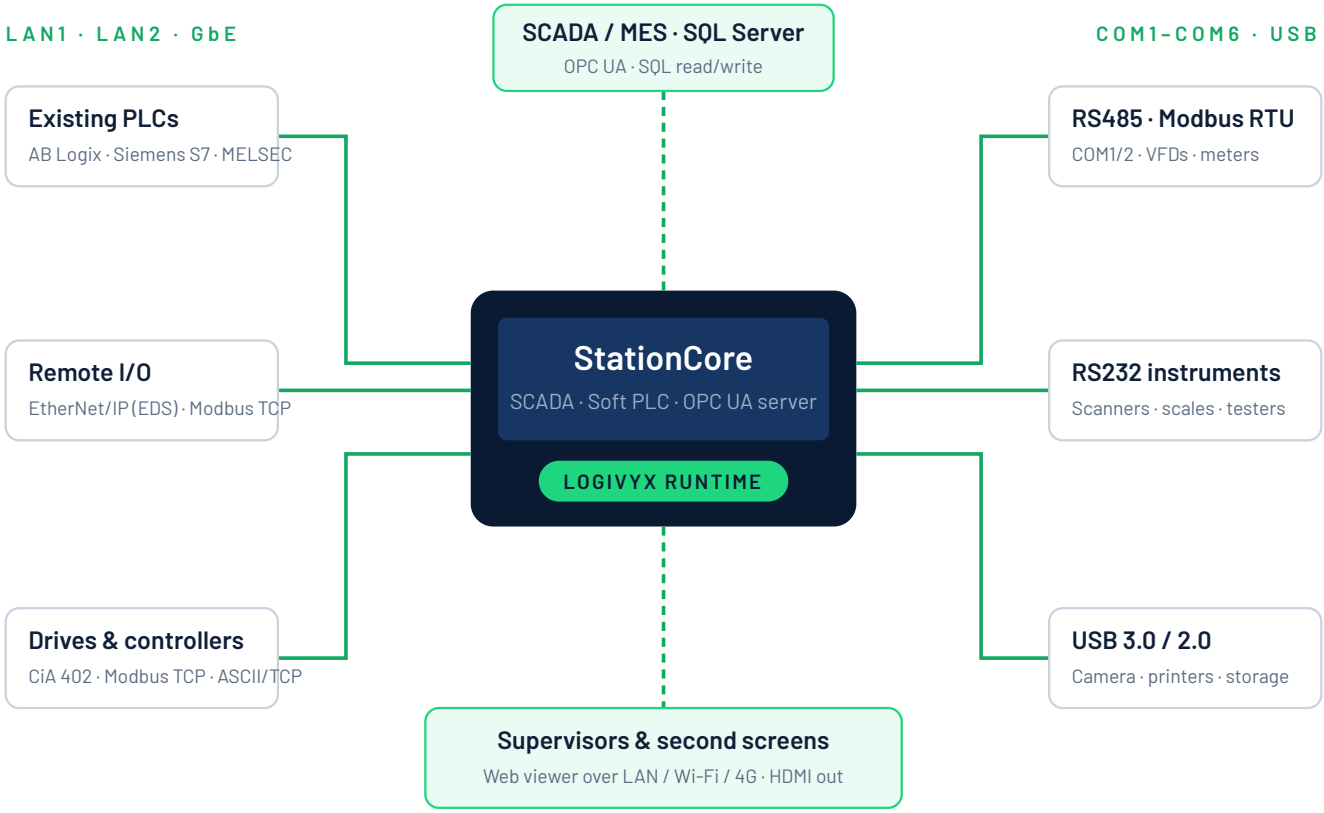


Live runtime screen. Five assembly and test stations on one page — sequence step, part codes, shift production and cycle times — from a real Logivyx project (simulated values).

CONNECTIVITY

The hub of the line — Ethernet, six COM ports, wireless.

Control the line from the embedded Soft PLC, supervise existing PLCs as a vendor-neutral SCADA, or both at once in hybrid mode — while serial devices plug straight into the station and data flows on to MES and SQL.



Mitsubishi

SLMP over Ethernet for MELSEC iQ-F (FX5) and SLMP-capable CPUs. Tag import from GX Works3 Global Label XML or CSV.

Siemens

S7 communication for S7-300/400 and S7-1200/1500. Data-block addressing, CSV tag import from TIA Portal.

Allen-Bradley

EtherNet/IP · CIP to ControlLogix / CompactLogix with symbolic tags. Import Studio 5000 L5X incl. UDTs.

FROM ENGINEERING DESK TO STATION

01
Design

Draw screens and write ST, Ladder or Sequence logic in Logivyx Studio on Windows 10/11.

02
Simulate

Test screens and logic together on the built-in simulator before the station is installed.

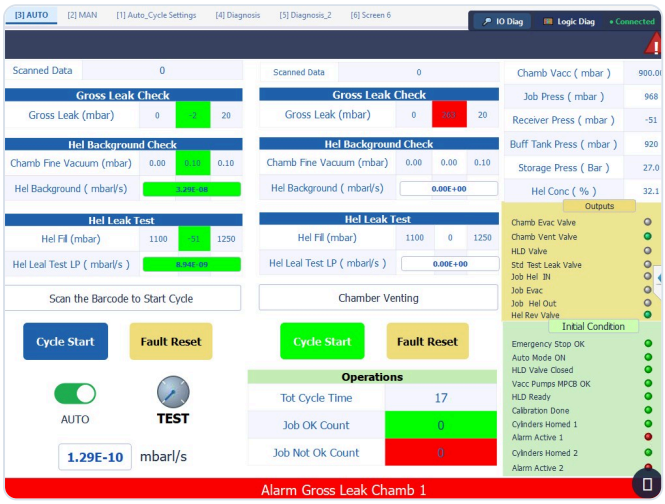
03
Deploy

Network-deploy to StationCore — SCADA and controller go live together.

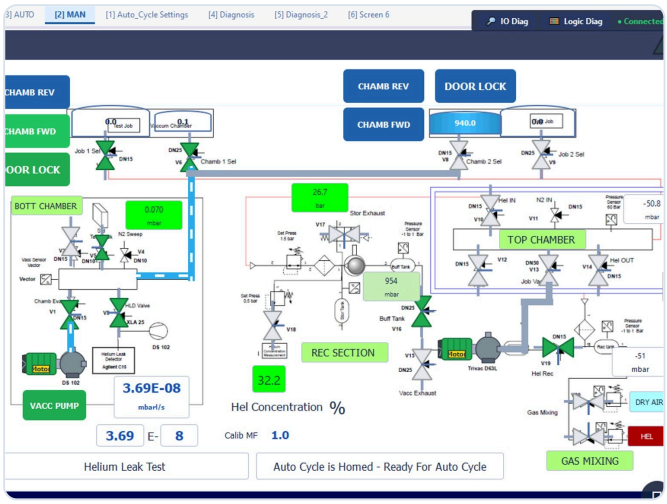
PROVEN ON REAL MACHINES

Room for the whole process on one screen.

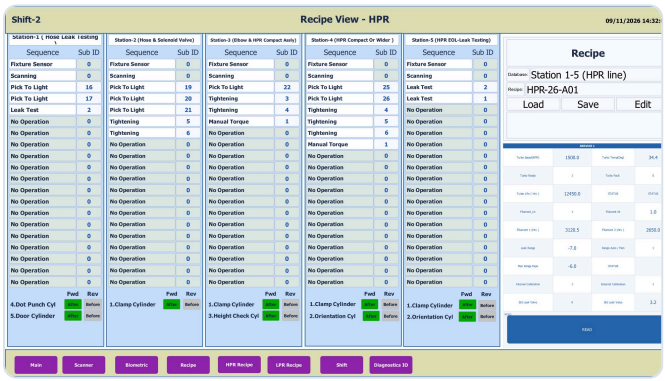
These screens come from production Logivyx projects — a helium leak-testing machine and a multi-station hose assembly line. On a 15″ or 17″ StationCore they run at full detail, with no need to split pages.



Helium Leak Testing — AUTO. Gross-leak, background and helium-leak results per stage with cycle counters and live alarms.



Helium Leak Testing — P&ID. Valves, vacuum chambers, pumps and gas lines animated live from Soft PLC tags.



Hose Assembly — Recipe view. Operation sequence of every station for the selected product.



Hose Assembly — Biometric link. Operator log-in per station from the fingerprint system's SQL database.

IDEAL APPLICATIONS

Multi-station lines
Assembly and test lines on one overview.

Leak testing machines
Helium, vacuum- and pressure-decay.

EOL test benches
Logged results and PDF certificates.

Line SCADA
Supervise mixed-brand PLCs from one desk.

Process plants
Tanks, valves, pumps and PID loops.

Vision & traceability
Cameras, scanners and SQL records.

Batch & recipe
Food, pharma and chemical dosing.

Retrofits
Replace a desktop PC + PLC pair.

TECHNICAL SPECIFICATIONS

Specifications

Model-specific	StationCore 15	StationCore 17
Display	15″ industrial LCD, LED backlight	17″ industrial LCD, LED backlight
Resolution / aspect	1024 × 768 · 4:3	1280 × 1024 · 5:4
Active area	304 × 228 mm	338.9 × 271.3 mm
Front bezel (W × H)	370 × 294 mm	404 × 341 mm
Rear housing (W × H)	357 × 281 mm	390 × 322 mm
Overall depth	68.2 mm	69.2 mm

Computing — SYSTEM

Processor	Intel® Core™ 7th gen — i3, i5 or i7 (by variant)
Memory	1 × SO-DIMM, up to 32 GB
Storage	1 × M.2 2280 M-key (SATA / NVMe), 128 GB – 2 TB · 1 × 2.5″ SATA bay
Watchdog	255 levels, programmable seconds/minutes; interrupt or system reset
Operating system	Windows 10 / 11 (Linux on request)

Display & touch — HMI

Brightness / contrast	450 nits · 1000:1
Viewing angle	89° / 89° / 89° / 89° (typ., CR ≥ 10)
Backlight life	30,000 h (min.)
Touch	Projected capacitive, 10-point, USB; transmittance > 80 %

Interfaces — I/O

Ethernet	2 × Gigabit (RTL8111H), Wake-on-LAN / PXE
Serial	6 × COM: COM1/COM2 RS232 or RS485, COM3–COM6 RS232
USB / video	2 × USB 3.0 · 2 × USB 2.0 · 1 × HDMI
Expansion	M.2 2230 E-key (Wi-Fi/BT) · mini-PCIe (Wi-Fi / 4G) · SIM slot
Audio	Combo audio jack · 2 × 8 Ω / 2 W speakers

Power & environment — HARDWARE

Power input	12 V DC, 2-pin Phoenix terminal (9–36 V DC optional) · power switch
Cooling	Fanless, passive heatsink; metal chassis
Mounting	Panel mount or VESA 100 × 100
Operating temp.	-10 °C to +60 °C
Storage temp.	-20 °C to +70 °C · 5–95 % RH non-condensing

Logivyx Runtime — SOFTWARE

Pre-installed	Logivyx Runtime (HMI/SCADA + embedded Soft PLC), per-device licence activated
Engineering	Logivyx Studio on Windows 10/11 64-bit — on a desk PC or on the station itself (optional)
Project format	Single .hmi file — screens, tags, logic, alarms, recipes, reports

Soft PLC — LOGIC

Languages	Structured Text (IEC 61131-3 style), Ladder Diagram, Sequence
Execution	Cyclic scan: input refresh → Main → output write-back; scan-time & overrun counters
Library	TON/TOF/TP, CTU/CTD, R_TRIG/F_TRIG, PID, SCALE, LIMIT, maths, strings, SQL_READ / SQL_WRITE
Motion	CiA 402 drives — MC_Power, MC_Home, MC_Move..., MC_Stop, MC_Reset
Retention	Retentive variables persisted across power cycles

HMI & data — VISUALISATION

Widgets	30+ display, control, chart, process, P&ID and camera widgets
Data services	SQLite logging & recipes, tag-triggered PDF reports, SQL Server read/write
Security	User groups, hashed passwords, screen/dialog/widget authorisation
Remote access	Browser & Android web viewer (read-only); OPC UA server

Connectivity — DRIVERS

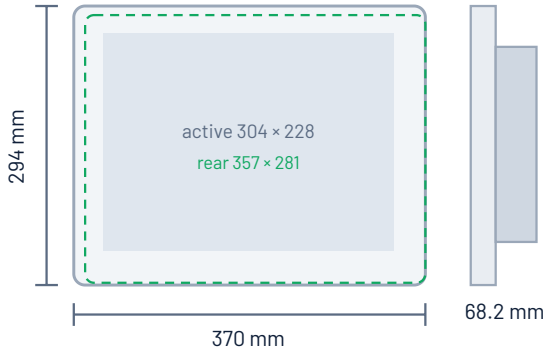
PLC drivers	Allen-Bradley Logix (EtherNet/IP) · Siemens S7 · Mitsubishi MELSEC (SLMP)
Open protocols	Modbus TCP · Modbus RTU (COM1/COM2) · OPC UA client & server · EtherNet/IP (EDS I/O)
Generic devices	ASCII over TCP, raw TCP, raw serial on COM1–COM6; built-in simulator

Specifications subject to change without notice.

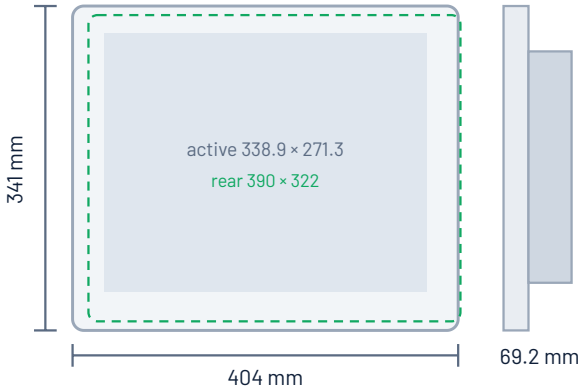
DIMENSIONS

Two sizes, same depth

STATIONCORE 15



STATIONCORE 17



Front views, to scale; dashed outline = rear housing that passes through the panel cut-out. Both models: VESA 100 × 100 mounting holes. Confirm the cut-out tolerance from the final mechanical drawing before machining.

ORDERING INFORMATION

Order code	Variant	CPU	RAM	SSD	Best for
LGX-SC15-3	**StationCore 15** Essential	Core i3	8 GB	128 GB	Single-machine SCADA + Soft PLC
LGX-SC15-5	**StationCore 15** Performance	Core i5	8 GB	256 GB	Lines with heavy logging & reports
LGX-SC17-5	**StationCore 17** Performance	Core i5	16 GB	256 GB	Multi-station overviews
LGX-SC17-7	**StationCore 17** Ultimate	Core i7	16 GB	512 GB	Vision, SQL and multi-PLC SCADA

Options: Wi-Fi/BT or 4G module · RS485 on COM1/COM2 · 9–36 V DC input · RAM up to 32 GB · SSD up to 2 TB · Logivyx Studio licence.

Logivyx

Request a live demo
and see StationCore run your line.

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