

Automation and Computing Platform Accessories



Accessories for Automation

Completing an automation solution requires more than automation and computing platforms. SEL provides peripherals, components, cables, and adapters essential for the completion and success of automation projects.



Peripherals

Rack-Mount Keyboards

These keyboards provide a convenient, reliable input device that can be stowed in the rack when not in use. Made for 19" rack-mount installations, they require only 1 rack unit of space.

Rack-Mount USB Keyboard With Mouse

- Model: Synergy Global LCDK1034-bk-U-MS
- Input Devices: 88-key keyboard, optical mouse
- Interface: 2 USB ports (keyboard, mouse)
- Cables Included: 2 USB (keyboard, mouse)
- Mounting Depth: 23" min.
- Operating Temperature: 0° to 50°C (32° to 122°F)
- Warranty: 1 year (manufacturer)
- Details: www.rackmountmart.com/rmLCD/lcdK1034.htm



91610050: USB Keyboard With Mouse

Rack-Mount USB Keyboard With Trackball

- Model: Synergy Global LCDK1016-bu-V5
- Input Devices: 104-key keyboard, 3-button trackball
- Interface: 2 USB ports (keyboard, trackball)
- Cables Included: Single cable with 2 USB plugs
- Mounting Depth: 16" min.
- Operating Temperature: 0° to 50°C (32° to 122°F)
- Warranty: 1 year (manufacturer)
- Details: www.rackmountmart.com/rmLCD/lcdK1016.htm



91610049: USB Keyboard With Trackball

| Part Number | Description |
|-------------|--|
| 91610050 | Rack-mount USB keyboard with mouse |
| 91610049 | Rack-mount USB keyboard with trackball |

Touchscreen Monitors

These touchscreen monitors provide a high-quality display and user-friendly touch interface for your automation applications. Their PCAP (capacitive) touch interface has multitouch capability, with a scratch-resistant glass surface and drift-free accuracy.

The touchscreen monitors are designed for panel mounting, but they can also be mounted in a 19" rack using the rack-mount brackets.

The touchscreen kits include a touchscreen monitor, rack-mount bracket, DisplayPort cable, and power supply.

19" Touchscreen Monitor

- Model: ELO 1991L, PCAP, P/N E331019
- Display: 19" diagonal 5:4, active matrix TFT LCD (LED)
- Resolution: 1280 × 1024 @ 60 Hz
- Details: www.elotouch.com/open-frame-touchscreens-1991l.html

19.5" Touchscreen Monitor

- Model: ELO 2094L, PCAP, P/N E331214
- Display: 19.5" diagonal 16:9 (widescreen), active matrix TFT LCD (LED)
- Resolution: 1920 × 1080 @ 60 Hz
- Details: www.elotouch.com/open-frame-touchscreens-2094l.html

19" and 19.5" Touchscreen Monitor Specifications

- Brightness: 225 nits
- Input Power: 12 Vdc, 17 W
- Video Inputs: HDMI, VGA, DisplayPort
- Touch Interface: USB
- Cables Included: HDMI, VGA, USB, RJ45 OSD remote
- Operating Temperature: 0° to 40°C (32° to 104°F)
- MTBF: 50,000 hours
- Warranty: 3 years (manufacturer)

19" Touchscreen Rack-Mount Bracket

- Dimensions: 19.00" × 15.72" × 1.25" (19" rack, 9 rack units, 0.13" protrusion)
- Material: aluminum with textured semigloss black finish

19.5" Touchscreen Rack-Mount Bracket

- Dimensions: 19.70" × 12.00" × 1.50" (19" rack, 7 rack units, 1.50" protrusion)
- Material: aluminum with brushed black anodized finish

Power Supply

- Model: Wall Industries DTA-080A4 series
- Input Voltage Range: 90–264 Vac (47–63 Hz), 100–300 Vdc[†]
- Output Power: 12 Vdc, 80 W
- Output Connector: 5.5 mm barrel jack, center positive
- Cables Included: 7.5' NEMA 5-15P to IEC C13 line cord
- Operating Temperature: 0° to 40°C (32° to 104°F)
- MTBF: >120,000 hours
- Warranty: 2 years (manufacturer)
- Details: www.wallindustries.com/products/ac-series/dta-080a4

[†]Power supply label lists ac ratings only; however, dc sources are also supported.



900-0048: 19" Touchscreen Monitor



900-0046-P09: 19" Touchscreen Rack-Mount Bracket



91610073: 19.5" Touchscreen Monitor



91610074: 19.5" Touchscreen Rack-Mount Bracket

| Part Number | Description |
|--------------|---|
| 91610054 | 19" Touchscreen kit (includes 900-0048, 900-0046-P09, 91610070, and 91610051) |
| 900-0048 | 19" Touchscreen monitor (panel-mount) |
| 900-0046-P09 | 19" Touchscreen rack-mount bracket |
| 91610072 | 19.5" Touchscreen kit (includes 91610073, 91610074, 91610070, and 91610051) |
| 91610073 | 19.5" Touchscreen monitor (panel-mount) |
| 91610074 | 19.5" Touchscreen rack-mount bracket |
| 91610051 | Power supply |
| 91610070 | DisplayPort 1.2 M/M cable with ferrite chokes, black, 6 ft |

Components

Memory Modules (RAM)

You can field-upgrade the system memory (RAM) on rack-mount computing platforms and Real-Time Automation Controllers (RTACs) like the SEL-3355 and the SEL-3555 RTAC. Surface-mount platforms like the SEL-3360 and the SEL-3560 RTAC must be returned to the factory for RAM upgrades.

The SEL-3355 and SEL-3555 (both the base and the -2 models) have two memory module slots. The number of slots currently in use depends on the configuration; systems with 4 GB of RAM only have one slot in use, and systems with greater than 4 GB may use one or two slots. Check your system configuration before purchasing additional modules, as upgrading may require removal of lower-capacity modules to make room for higher-capacity ones. Refer to the product instruction manual for instructions.

DDR3 RAM

- Applicable Models: SEL-3355, SEL-3555 (Intel Core i7 CPU)
- Type: 244-pin DDR3 error-correcting code (ECC) mini-DIMM
- Speed: PC3-10600 (1,333 MHz)

DDR4 RAM

- Applicable Models: SEL-3355-2, SEL-3555-2 (Intel Xeon CPU)
- Type: 288-pin DDR4 ECC mini-DIMM
- Speed: PC4-17000 (2,133 MHz)

General

- Operating Temperature: -40° to +85°C (-40° to +185°F)
- Conformal Coating: Yes
- Warranty: 10 years (SEL)



Memory Module

| Part Number | Description |
|--------------|------------------------|
| 91611001-01C | Memory, 4 GB DDR3 RAM |
| 91611001-02C | Memory, 8 GB DDR3 RAM |
| 91611018-01 | Memory, 4 GB DDR4 RAM |
| 91611018-02 | Memory, 16 GB DDR4 RAM |
| 91611018-03* | Memory, 32 GB DDR4 RAM |

*Note: Only compatible with systems with serial number higher than 1203260001. Contact SEL to upgrade older systems to support 32 GB RAM modules.

Solid-State Drives (SSDs)

Add storage capacity and/or redundancy to your SEL automation and computing platforms by installing additional SSDs. To learn about single-level cell (SLC), pseudo-SLC (pSLC), and 3D triple-level cell (3D TLC) SSDs, read the application note AN2016-03, "Determining Solid-State Drive (SSD) Lifetimes for SEL Computing Platforms," on the SEL website.

SLC SSDs

- Endurance: 100,000 program/erase cycles
- Operating Temperature: -40° to +85°C (-40° to +185°F)
- Conformal Coating: Yes
- Warranty: 10 years (SEL)

| Part Number | Description |
|--------------|---------------------------------------|
| 91610055 | SEL-3350 empty SSD sled |
| 91610059 | SEL-3350 SSD, 32 GB SLC w/ sled |
| 91610060 | SEL-3350 SSD, 64 GB SLC w/ sled |
| 91610061 | SEL-3350 SSD, 128 GB SLC w/ sled |
| 91610062 | SEL-3350 SSD, 256 GB SLC w/ sled |
| 91610063 | SEL-3350 SSD, 120 GB pSLC w/ sled |
| 91610064 | SEL-3350 SSD, 240 GB pSLC w/ sled |
| 91610065 | SEL-3350 SSD, 480 GB pSLC w/ sled |
| 91610066 | SEL-3350 SSD, 240 GB 3D TLC w/ sled |
| 91610067 | SEL-3350 SSD, 480 GB 3D TLC w/ sled |
| 91610068 | SEL-3350 SSD, 960 GB 3D TLC w/ sled |
| 91610069 | SEL-3350 SSD, 1,920 GB 3D TLC w/ sled |
| 91611002-00 | SEL-3355 empty SSD sled |
| 91611002-01C | SEL-3355 SSD, 32 GB SLC w/ sled |
| 91611002-02C | SEL-3355 SSD, 64 GB SLC w/ sled |
| 91611002-03C | SEL-3355 SSD, 128 GB SLC w/ sled |
| 91611002-04C | SEL-3355 SSD, 256 GB SLC w/ sled |
| 91611013-03C | SEL-3355 SSD, 120 GB pSLC w/ sled |
| 91611013-02C | SEL-3355 SSD, 240 GB pSLC w/ sled |
| 91611013-01C | SEL-3355 SSD, 480 GB pSLC w/ sled |
| 91611016-01 | SEL-3355 SSD, 240 GB 3D TLC w/ sled |
| 91611016-02 | SEL-3355 SSD, 480 GB 3D TLC w/ sled |
| 91611016-03 | SEL-3355 SSD, 960 GB 3D TLC w/ sled |
| 91611016-04 | SEL-3355 SSD, 1,920 GB 3D TLC w/ sled |

pSLC SSDs

- Endurance: 20,000 program/erase cycles
- Operating Temperature: -40° to +85°C (-40° to +185°F)
- Conformal Coating: Yes
- Warranty: 5 years (SEL)

3D TLC SSDs

- Endurance: 3,000 program/erase cycles
- Operating Temperature: -40° to +85°C (-40° to +185°F)
- Conformal Coating: Yes
- Warranty: 5 years (SEL)



SEL-3355 SSD With Sled



91611002-00: SEL-3355 SSD Sled



91611010-00: SEL-3360 SSD Sled

| Part Number | Description |
|--------------|---------------------------------------|
| 91611010-00 | SEL-3360 empty SSD sled |
| 91611010-01C | SEL-3360 SSD, 32 GB SLC w/ sled |
| 91611010-02C | SEL-3360 SSD, 64 GB SLC w/ sled |
| 91611010-03C | SEL-3360 SSD, 128 GB SLC w/ sled |
| 91611010-04C | SEL-3360 SSD, 256 GB SLC w/ sled |
| 91611015-03C | SEL-3360 SSD, 120 GB pSLC w/ sled |
| 91611015-02C | SEL-3360 SSD, 240 GB pSLC w/ sled |
| 91611015-01C | SEL-3360 SSD, 480 GB pSLC w/ sled |
| 91611017-01 | SEL-3360 SSD, 240 GB 3D TLC w/ sled |
| 91611017-02 | SEL-3360 SSD, 480 GB 3D TLC w/ sled |
| 91611017-03 | SEL-3360 SSD, 960 GB 3D TLC w/ sled |
| 91611017-04 | SEL-3360 SSD, 1,920 GB 3D TLC w/ sled |

Power Supplies

The SEL-9331 Power Supply is a high-output +12 Vdc, 200 W fanless power supply designed for SEL's line of automation and computing platforms and can also be configured as a general-purpose standalone power supply module. Capable of producing 11 A of continuous current (from -40° to +85°C [-40° to +185°F]) and 17 A of maximum current, the SEL-9331 can provide ample power in environments where many supplies cannot.

The SEL-9325 is a power supply module for the SEL-3350 platform with 3U chassis configuration only; it cannot be used as a stand-alone power supply.

SEL-9331A High-Voltage, Input

- DC Voltage Rating: 125/250 Vdc
- DC Range: 100–300 Vdc
- AC Voltage Rating: 120/220/240 Vac; 50/60 Hz
- AC Range: 85–264 Vac, 45–64 Hz

SEL-9331B Low-Voltage, Input

- DC Voltage Rating: 48 Vdc
- DC Voltage Range: 38–58 Vdc

SEL-9331A/B, Output

- Nominal Output Voltage: 12.1 Vdc
- Max Output Current: 17 A @ 40°C (104°F), 11 A @ 85°C (185°F)

SEL-9325A001 High-Voltage, Input

- DC Voltage Rating: 125–250 Vdc
- DC Range: 85–300 Vdc
- AC Voltage Rating: 110–240 Vac; 50/60 Hz
- AC Range: 85–264 Vac, 30–120 Hz

SEL-9325A002 Medium-Voltage, Input

- DC Voltage Rating: 48–125 Vdc
- DC Range: 38–140 Vdc
- AC Voltage Rating: 110–120 Vac; 50/60 Hz
- AC Range: 85–140 Vac, 30–120 Hz

SEL-9325A003 Low-Voltage, Input

- DC Voltage Rating: 24–48 Vdc
- DC Range: 16–60 Vdc

SEL-9325A001/2/3, Output

- Max Burden: 62 W, 150 VA

General

- Operating Temperature: -40° to +85°C (-40° to +185°F)
- Conformal Coating: Yes (optional)
- Warranty: 10 years (SEL)

Details: selinc.com/products/9331

Details: selinc.com/products/3350

| Part Number | Description |
|-------------------|--|
| Configure Online* | SEL-9331 Power Supply |
| 91611011-01 | SEL-9331 wall-/panel-mount conversion kit |
| 91611011-02 | SEL-9331 DIN rail-mount conversion kit |
| 9325A001 | SEL-9325 Power Supply, high-voltage |
| 9325A001C | SEL-9325 Power Supply, high-voltage, conformal coating |
| 9325A002 | SEL-9325 Power Supply, medium-voltage |
| 9325A002C | SEL-9325 Power Supply, medium-voltage, conformal coating |
| 9325A003 | SEL-9325 Power Supply, low-voltage |
| 9325A003C | SEL-9325 Power Supply, low-voltage, conformal coating |

*Configure at selinc.com/products/configure/9331.



SEL-9331 Module for SEL-3355



SEL-9331 With Wall/Panel Mount



SEL-9331 With DIN Rail Mount



SEL-9331 With IEC C14 Input

Expansion Cards

SEL-3390 PCI Express (PCIe) Expansion Cards are designed, built, and tested for use in harsh industrial and substation environments, providing a wide operating temperature range and immunity to ESD, shock, and vibration. They can also be ordered with conformal coating for corrosion immunity. These expansion cards are PCIe-compliant and have a standard PCIe form factor, so they are compatible with most PCIe-compliant automation controllers, computers, and servers.

SEL-3390S8 Serial Adapter Card

- Ports: Six EIA-232/422/485 serial, up to 921 kbps
- Features: IRIG-B input/output, +5 V dc port power
- Conformal Coating: Yes (optional)
- Details: selinc.com/products/3390S8

SEL-3390E4 Ethernet Adapter Card

- Ports: Four 10/100/1000 Mbps Ethernet
- Features: Optional RJ45 copper or small form-factor pluggable (SFP) fiber ports
- Conformal Coating: Yes (optional)
- Details: selinc.com/products/3390E4

SEL-3390T Time and Ethernet Adapter Card

- Ports: IRIG-B BNC input and output, two 10/100/1000 Mbps Ethernet
- Features: Optional RJ45 copper or small form-factor pluggable (SFP) fiber ports
- Conformal Coating: Yes (optional)
- Details: selinc.com/products/3390T

Small Form-Factor Pluggable (SFP) Modules

Details: selinc.com/products/sfp

General

- Operating Temperature: -40° to +85°C (-40° to +185°F)
- Warranty: 10 years (SEL)



SEL-3390S8 Serial Adapter Card



SEL-3390E4 Ethernet Adapter Card



SEL-3390T Time and Ethernet Adapter Card



SFP Modules

| Part Number | Description |
|-------------|---|
| 3390S8A001 | SEL-3390S8 |
| 3390S8A001C | SEL-3390S8, conformal coating |
| 3390E4A001 | SEL-3390E4, 4 RJ45 |
| 3390E4A001C | SEL-3390E4, 4 RJ45, conformal coating |
| 3390E4A002 | SEL-3390E4, 2 RJ45 + 2 SFP |
| 3390E4A002C | SEL-3390E4, 2 RJ45 + 2 SFP, conformal coating |
| 3390E4A003 | SEL-3390E4, 4 SFP |
| 3390E4A003C | SEL-3390E4, 4 SFP, conformal coating |
| 3390TA001 | SEL-3390T, 2 RJ45 |
| 3390TA001C | SEL-3390T, 2 RJ45, conformal coating |
| 3390TA002 | SEL-3390T, 1 RJ45 + 1 SFP |
| 3390TA002C | SEL-3390T, 1 RJ45 + 1 SFP, conformal coating |
| 3390TA003 | SEL-3390T, 2 SFP |
| 3390TA003C | SEL-3390T, 2 SFP, conformal coating |

| Part Number | Description |
|-------------|-----------------------------|
| 8104-01 | SFP, 100BASE-LX, 20 km |
| 8104-02 | SFP, 100BASE-EX, 50 km |
| 8104-03 | SFP, 100BASE-ZX, 80 km |
| 8104-04 | SFP, 100BASE-ZX, 120 km |
| 8104-05 | SFP, 100BASE-ZX, 160 km |
| 8109-01 | SFP, 100BASE-FX, 2 km |
| 8130-01 | SFP, 1000BASE-LX, 10 km |
| 8130-02 | SFP, 1000BASE-LX, 20 km |
| 8130-03 | SFP, 1000BASE-LX, 30 km |
| 8130-04 | SFP, 1000BASE-LX, 40 km |
| 8130-05 | SFP, 1000BASE-XD, 50 km |
| 8130-06 | SFP, 1000BASE-ZX, 80 km |
| 8131-01 | SFP, 1000BASE-SX, 300–500 m |

Cables and Adapters

Reliably connect SEL products to other devices, including relays, information processors, automation controllers, computers, I/O modules and controllers, meters, digital fault recorders (DFRs), programmable logic controllers (PLCs), remote terminal units (RTUs), time clocks, phone switches, and modems.

The cables and adapters listed here are specific to SEL automation and computing platforms. For additional general-purpose cables and adapters, see the SEL website.



91610029: Internal USB Adapter



91611005-01: Panel-Mount Conversion Kit for SEL-3355

Accessory Cables and Adapters

| Part Number | Description |
|-------------|--|
| 91610070 | DisplayPort 1.2 M/M cable with ferrite chokes, black, 6 ft |
| 91610029 | Internal USB adapter for SEL-3355/3360 |
| 91611005-01 | Panel-mount conversion kit for SEL-3355 |
| 91610056 | Panel-mount conversion kit for SEL-3350 1U |
| 91610057 | Rack-mount conversion kit for SEL-3350 1U |
| 91611019-01 | Panel-mount conversion kit for SEL-3350 3U |
| 91611007-01 | Line cord for SEL-3355/3360/9331, 8 ft, Euro connector |
| 91611007-02 | Line cord for SEL-3355/3360/9331, 8 ft, IEC C13 connector |
| 91610058 | Line cord for the SEL-3350, 6 ft |



91610070: DisplayPort 1.2 M/M Cable With Ferrite Chokes, Black, 6 ft



91611007-01: Line Cord, Euro Connector

Data Cables

- Lengths available are subject to change; please check online.
- P/N includes length in feet: n = 1–6, nnn = 001–100 (except where otherwise noted)
- Details: selinc.com/products/cables

| Part Number | Description |
|-----------------------|--|
| C477-nnn ¹ | SEL-3390S8 to DB-9 M, EIA-485 GE DNP |
| C478A-n | SEL-3390S8 to DB-9 F, DTE-DCE |
| C478N-n | SEL-3390S8 to DB-9 F + BNC, DTE-DCE, IRIG |
| C605-n | SEL-3390S8 to DB-9 M, DTE-DTE, IRIG, +5 Vdc |
| C605A-nnn | SEL-3390S8 to DB-9 M, DTE-DTE, IRIG |
| C605R-nnn | SEL-3390S8 to DB-9 M, DTE-DTE, IRIG, 2x shield |
| C607-nnn ² | SEL-3390S8 to tinned wires (EIA-422/485) |
| C616-nnn | SEL-3390S8 to DB-9 M, DTE-DCE (modem) |
| C629A-nnn | SEL-3390S8 to RJ45, DTE-DTE, IRIG |
| C629R-nnn | SEL-3390S8 to RJ45, DTE-DTE, IRIG, 2x shield |
| C659-nnn | SEL-3390S8 to DB-9 M + BNC, DTE-DTE, IRIG |
| C972-nnn ³ | SEL-3390S8 to BNC, IRIG |
| CA605 | RJ45 Cat 5e Ethernet (configure online) |
| C808 | LC fiber, multimode (configure online) |
| C809 | LC fiber, single-mode (configure online) |

¹Maximum orderable length is 150 feet.

²Maximum orderable length is 330 feet.

³Maximum orderable length is 130 feet.



C616: 3390S8 to DB-9 M Serial Cable

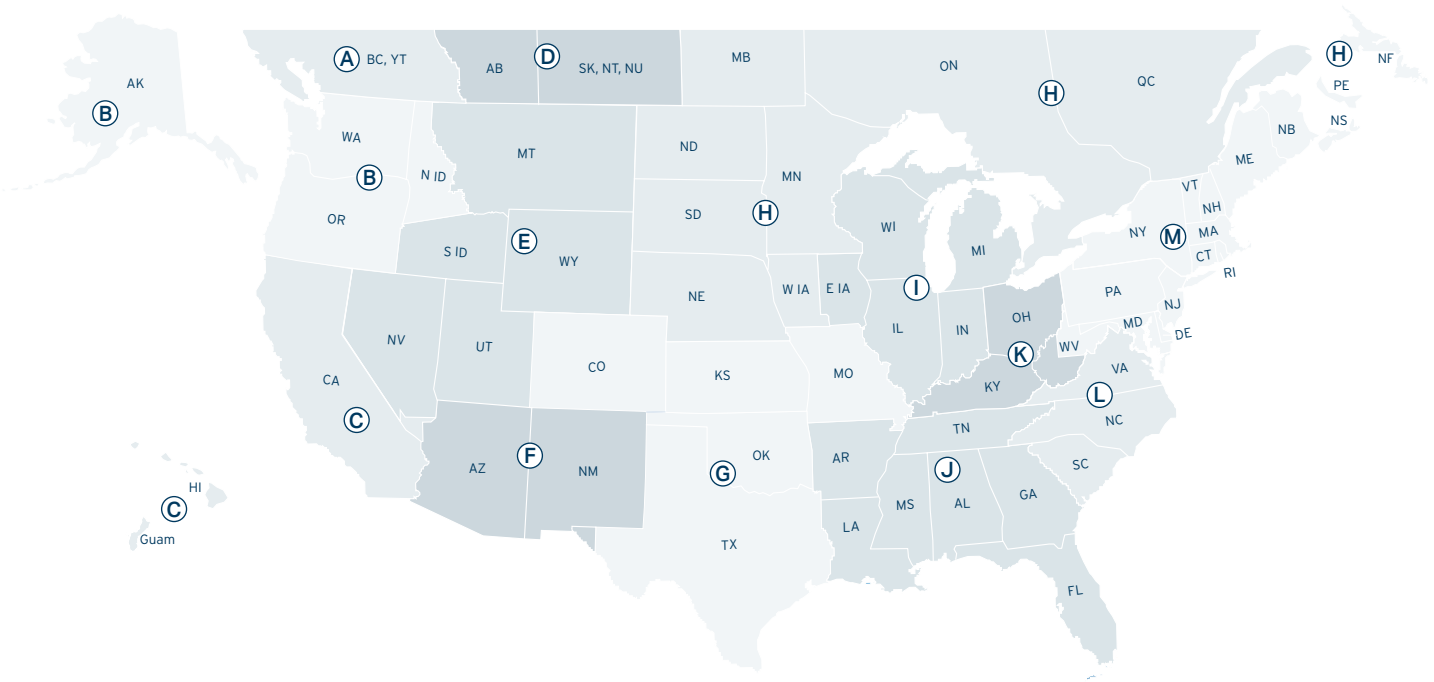


CA605: RJ45 Cat 5e Ethernet Cable



C809: LC Fiber, Single-Mode Cable

Ordering and Customer Support



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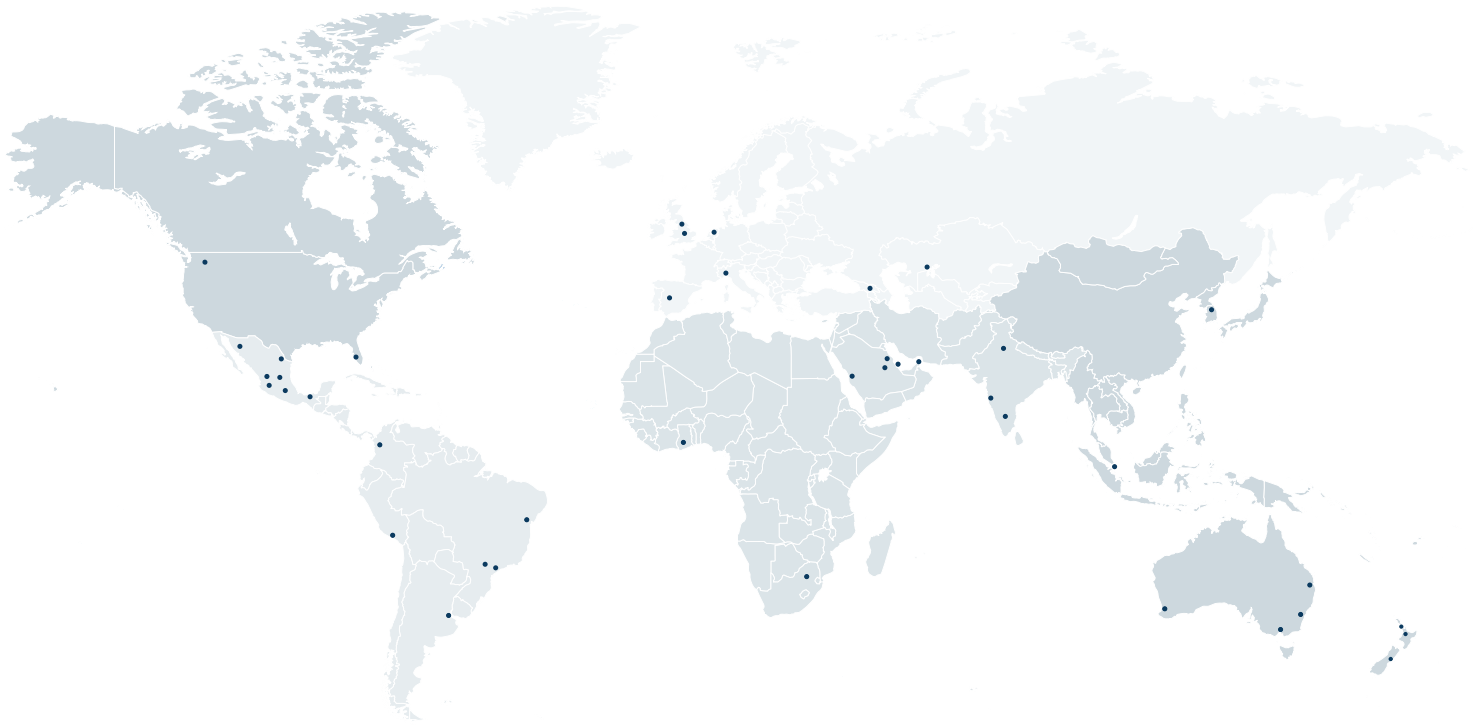
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