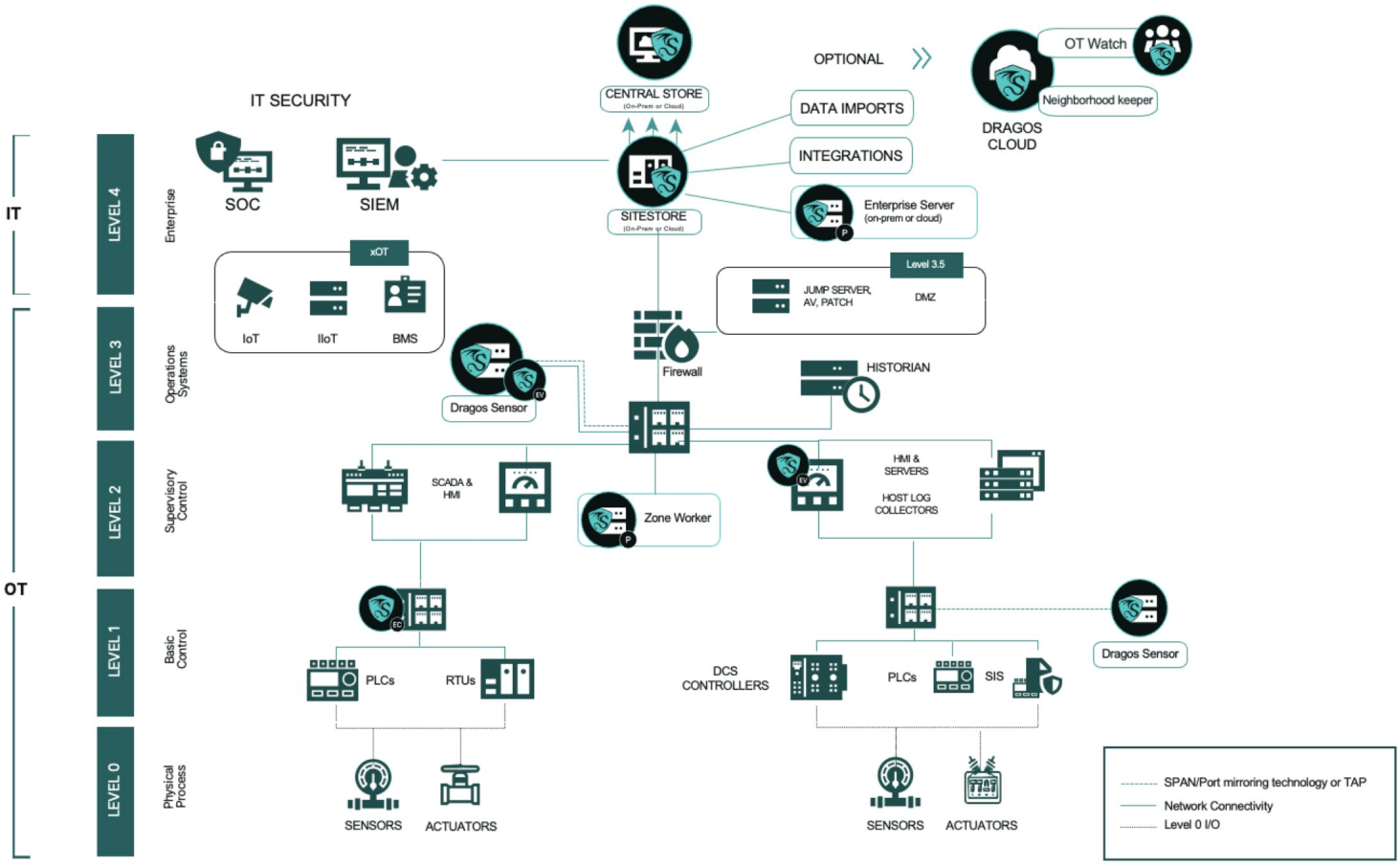
DRAGOS

DRAGOS PLATFORM

Dragos Platform Deployment Models & Technical Specifications

Overview

The Dragos Platform delivers safe visibility, continuous monitoring, vulnerability management, threat detection, and response across extended operational technology (xOT) environments: the complete technology ecosystem that can affect physical operations, from traditional OT and ICS to the IoT, edge, and IT assets with influence over the control loop. It deploys on-premises, hybrid, virtual, or in the cloud with every deployment powered by the Dragos Intelligence Fabric, built from over a decade of xOT-specific telemetry, adversary research, and incident response.



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Multi-Source Data Collection

Passive Monitoring	Dragos Sensors (physical and virtual) observe OT network communications non-intrusively, using deep packet inspection (DPI) to decode over 600 industrial protocols.
Dragos Agent	Targeted, OT-safe enrichment of the asset inventory using controlled, protocol-aware queries. Discovers isolated or low-traffic assets and supports software and OS vulnerability matching. Deploys as a lightweight agent on endpoints, directly on the Dragos Sensor, or as a standalone executable for offline, run-once collection.
Data Import	Imports project files and configuration data from engineering and control systems.
Integrations	Exchange asset, vulnerability, and detection data with third-party security and IT tools, including SIEM, SOAR, IT service management, Microsoft Defender, and Microsoft Sentinel.
Aggregation	SiteStores aggregate asset, vulnerability, and threat data across connected Sensors, providing historical context and centralized visibility across xOT environments to support detection, investigation, and response. CentralStore (optional component) offers central management of SiteStores, enabling a central location for multi-site aggregation, central dashboards, searching, and reporting.

Deployment Options

The Dragos Platform deploys on-premises, hybrid, virtual, or in the cloud, to fit each organization's architecture and operational constraints. Every option delivers the same Platform capabilities, and none requires the cloud.

Hardware appliances	Dragos-certified hardware or validated commercial off-the-shelf (COTS) hardware for customers using existing vendor hardware agreements.
Virtual appliances	Software appliances deployed on supported on-premises hypervisors (e.g., VMware ESXi, KVM).
Customer-managed cloud	Virtual appliances (Sensors, SiteStores, CentralStores) deployed within the customer's own cloud tenant on AWS or Azure, under the customer's control. This is how the Dragos Platform runs in the cloud; it is distinct from Dragos Cloud, the Dragos-hosted interface.

Dragos Platform appliances are designed to accommodate a wide variety of industrial environment scenarios. For optimal architecture and sizing, please consult with your Dragos account team or contact sales@dragos.com.

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Sensors – Hardware

				
SPECIFICATION	**NS-120-I**	**NS-100-SEL**	**NS-220-E**	**NS-520-E**
Rugged / Industrial Rating	Yes	Yes	No	No
Estimated Max Monitored Assets	1,000	1,000	10,000	10,000
Max Concurrent Flow Processing	1,250	5,000	5,000	20,000
Max Sustained Monitoring Bandwidth	25 Mbps	250 Mbps	250 Mbps	500 Mbps
Monitoring Interfaces	1G RJ45 (3) 1G SFP (2)	1G RJ45 (1)	10G SFP+ (4) 1G RJ45 (8)	10G SFP+ (4) 1G RJ45 (8)
Management Interfaces	1G RJ45 (1)	1G RJ45 (1)	1G RJ45 (2) (only 1 port enabled)	1G RJ45 (2) (only 1 port enabled)
Expansion Monitoring Interfaces	None	1G RJ45 (4–8) 1G SFP (4–8)	1G RJ45 (8) 1G SFP (4)	1G RJ45 (8) 1G SFP (4)
Local Console	Serial (RJ45) HDMI / 1x USB-A 3.0	2x DVI-D; 1x DP Rear: 4x USB-A 3.1 Front: 2x USB-A 3.1	VGA 2x USB-A 2.0 RJ45 console	VGA 2x USB-A 2.0 RJ45 console
Remote Management	No	No	IPMI	IPMI
Form Factor	DIN Rail	3U Rackmount	Tabletop / 1U Rackmount	Tabletop / 1U Rackmount
Fanless	Yes	Yes	No	No
Power Supply	60W 1× 6-pin terminal block for dual 12~48 VDC direct power input. Optional external AC/DC power adapter with connector	Single power supply (default) or dual (optional): 48 VDC, 120–240 VAC (High Voltage), 125–250 VDC (Euroblock)	150W (100~240 VAC ext. power adapter to DC input) Optional second external power adapter to second DC input	150W (100~240 VAC ext. power adapter to DC input) Optional second external power adapter to second DC input
Max Power Consumption	28.34 W	240 W	58.6 W	66.3 W
Max BTU/hr	96.7 BTU/hr	818 BTU/hr	200 BTU/hr	262 BTU/hr
Operating Temperature Range	-40°C ~ 70°C	-40°C ~ 60°C	0°C ~ 40°C	0°C ~ 40°C
Storage Temperature Range	-40°C ~ 70°C	-40°C ~ 85°C	-40°C ~ 70°C	-40°C ~ 70°C
HxDxW (in/mm)	6.30 × 2.6 × 5.9 in 160 × 66.2 × 150 mm	5.22 × 11.49 × 18.31 in 132.6 × 291.8 × 465.1 mm	1.7 × 9.5 × 13.3 in 43.7 × 241.1 × 339.6 mm	1.7 × 9.5 × 13.3 in 43.7 × 241.1 × 339.6 mm
Weight	5.73 lb / 2.6 kg	20 lb / 9.1 kg	9.9 lb / 4.5 kg	9.9 lb / 4.5 kg
Certifications	CE, FCC, CB, UL, CCC IEC-61850-3, IEEE-1613	CE, FCC Class A, UL, RoHS, RCM CB	CB, CE, FCC, UL	CB, CE, FCC, UL
TAA Compliant	Yes	Yes	Yes	Yes
Warranty Period	3 years	3 years*	3 years	3 years

* Dragos provides 3-year warranty; SEL provides warranty for up to 10 years.

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Sensors – Hardware (continued)

				
SPECIFICATION	**NS-1000-E**	**NS-1020-E**	**NS-1050-E**	**NS-2050-E**
Rugged / Industrial Rating	No	No	No	No
Estimated Max Monitored Assets	10,000	10,000	10,000	1,000,000
Max Concurrent Flow Processing	30,000	30,000	30,000	300,000
Max Sustained Monitoring Bandwidth	1 Gbps	1 Gbps	1 Gbps	10 Gbps
Monitoring Interfaces	1G RJ45 (4)	1G RJ45 (8) 10G SFP+ (4)	1G RJ45 (8) 10GBASE-T RJ45 (2) Optional 10G SFP+ (4)	10G RJ45 (2) 10G SFP+ (2)
Management Interfaces	1G RJ45 (2) (only 1 port enabled)	1G RJ45 (2) (only 1 port enabled)	1G RJ45 (2) (only 1 port enabled)	1G RJ45 (2) (only 1 port enabled)
Local Console	VGA / 2x USB-A 3.0	VGA / 2x USB-A 3.0	VGA / 2x USB 2.0 / 1x USB 3.0	VGA / 2x USB-A 3.0
Remote Management	IPMI	IPMI	IPMI	IPMI
Form Factor	1U Rackmount	1U Rackmount	1U Rackmount	2U Rackmount
Fanless	No	No	No	No
Power Supply	Dual 550W (100~240 VAC) Hot Plug Redundant	Dual 300W (100~240 VAC) Hot Plug Redundant	Dual 800W (100~240 VAC) Hot swap redundant	Dual 1400W AC/240 Hot Plug Redundant (1+1)
Max Power Consumption	300 W	219 W	800 W	742 W
Max BTU/hr	1023 BTU/hr	747 BTU/hr	3000 BTU/hr	2531.8 BTU/hr
Operating Temperature Range	10°C ~ 35°C	0°C ~ 40°C	10°C ~ 35°C	10°C ~ 35°C
Storage Temperature Range	-30°C ~ 60°C	-20°C ~ 70°C	-40°C ~ 65°C	-40°C ~ 65°C
HxDxW (in/mm)	1.68 × 28.13 × 17.08 in 42.8 × 714.62 × 434 mm	1.7 × 16.5 × 17.2 in 44 × 420 × 438 mm	1.7 × 18.97 × 28.92 in 42.8 × 482 × 734.95 mm	3.41 × 30.39 × 18.97 in 86.8 × 482.0 × 772.13 mm
Weight	38.9 lb / 17.64 kg	18.14 lb / 8.23 kg	36.55 lb / 16.58 kg	70.10 lb / 31.8 kg
Certifications	CE, FCC Class A, UL, RoHS	CE, FCC Class A, UL, RoHS	CE, FCC Class A, UL, RoHS	BIS (India), CE (EU), CCC (CN), KCC (Korea), NOM (MX), NRCS (South Africa), RCM (Australia), FCC Part 15 (US)
TAA Compliant	Yes	Yes	Yes	Yes
Warranty Period	3 years	3 years	3 years	3 years

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Transceivers

DRAGOS APPLIANCE	SUPPORTED TRANSCEIVERS – DRAGOS SKU
NS-120-I **NS-220-E** **NS-520-E** **NS-1020-E** **NS-1050-E** **NS-2050-E**	NS-TM-FTLX1475-D3BCV (10G/1G Single Mode Optical) NS-TM-FTLX8574-D3BCV (10G/1G Multimode Optical) NS-TM-SFP10GMT (NBASE-T Copper RJ-45 Transceiver Module)
NS-100-SEL	NS-TM-FTLF8109-P3BNL (100BASE-FX LC Multimode)

Sensors – Virtual

SPECIFICATION	NS-25-VM	NS-100-VM	NS-250-VM	NS-500-VM	NS-1000-VM
Estimated Max Monitored Assets	250	1,000	5,000	7,500	10,000
Max Concurrent Flow Processing	1,250	5,000	7,500	10,000	15,000
Max Sustained Monitoring Bandwidth*	25 Mbps	100 Mbps	250 Mbps	500 Mbps	1 Gbps
Monitoring Interfaces	4	4	4	4	4
CPU (vCores)**	4	5	6	8	12
Memory (RAM)	8 GB	10 GB	14 GB	18 GB	22 GB
Disk	200 GB 7.5k Read IOPS 3k Write IOPS	400 GB+ 10k Read IOPS 5k Write IOPS	400 GB+ 20k Read IOPS 5k Write IOPS	1 TB 30k Read IOPS 10k Write IOPS	1 TB 50k Read IOPS 15k Write IOPS

Host Environment: VMware ESXi 6.7 or newer; VMware vSphere 6.7 or newer; Proxmox Virtual Environment (VE) 8.2 or newer; KVM/QEMU on Linux kernel 2.6.20 or newer; Microsoft Hyper-V 10.0.20348.1 running on Windows Server 2022 Standard or newer; Nutanix 6.8.1 or newer. Virtual appliances also deploy in customer-managed cloud tenants on AWS or Azure.

* Measured with all Platform capabilities enabled; actual results may vary depending on network traffic characteristics.

** vCPU performance should equate to dedicated threads of a Xeon E5-2680 v4 or better.

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SiteStore – Hardware

		
SPECIFICATION	**STS-550-E**	**STS-050-E**
Capacity	Up to 20 Gbps of traffic monitored by connected Dragos Sensors, 500 Mbps ingestion rate for embedded sensor	Up to 2 Gbps of traffic monitored by the embedded sensor, 500 Mbps ingestion rate for embedded sensor
Estimated Max Monitored Assets	500,000	5,000
Management Interfaces	1G RJ45 (1) (specified, not changeable)	1G RJ45 (1) (specified, not changeable)
Monitoring Interfaces	1G RJ45 (1) (specified, not changeable)	1G RJ45 (1) (specified, not changeable)
Local Console	VGA connector for video; USB-A ports for keyboard, mouse Front: 1x USB-A 2.0; Back: 2x USB-A 3.0	Front: 1x iDRAC Direct (Micro-AB USB), 1x USB 2.0 Rear: 1x Dedicated iDRAC RJ45, 1x USB 2.0, 1x USB 3.2 Gen1, 1x VGA, 1x Serial
Remote Management	IPMI	IPMI
Form Factor	1U Rackmount	1U Rackmount
Field Replaceable Parts	Power Supply (2), Disk (6)	Power Supply (2), Disk (2)
Power Supply	Dual 1100W (100–240 VAC), Hot Plug Redundant	Dual 600W (100–240 VAC), Hot Plug Redundant
Avg/Max Power Consumption	350 W / 1000 W	N/A / 600 W
Avg/Max BTU/hr	1200 / 3500 BTU/hr	N/A / 2250 BTU/hr
Operating Temperature Range	10°C ~ 35°C	5°C ~ 45°C
Storage Temperature Range	-40°C ~ 65°C	-40°C ~ 65°C
HxDxW (in/mm)	1.68 × 17.08 × 27.26 in 42.8 × 434 × 692.2 mm	1.68 × 18.97 × 23.57 in 42.8 × 482.0 × 598.5 mm
Weight	30.2 lb / 13.7 kg	21–22 lb / 9.5–10 kg
Certifications	CE, FCC Class A, UL, RoHS	CE, FCC Class A, UL, RoHS
TAA Compliant	Yes	Yes
Warranty Period	5 years	5 years

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SiteStore – Virtual

SPECIFICATION	STS-50-VM	STS-200-VM	STS-500-VM
Max Sustained Monitoring Bandwidth	2 Gbps	6 Gbps	10 Gbps
Estimated Max Monitored Assets	5,000	100,000	500,000
Max Sensor Ingest Bandwidth	500 Mbps	500 Mbps	500 Mbps
CPU (vCores)	16	24	48
Memory (RAM)	64 GB	96 GB*	192 GB
Disk	500 GB 50k Read IOPS 20k Write IOPS	3 TB 50k Read IOPS 20k Write IOPS	8 TB 100k Read IOPS 40k Write IOPS

Host Environment: VMware ESXi 6.7 or newer; VMware vSphere 6.7 or newer; Proxmox Virtual Environment (VE) 8.2 or newer; KVM/QEMU on Linux kernel 2.6.20 or newer; Microsoft Hyper-V 10.0.20348.1 running on Windows Server 2022 Standard or newer; Nutanix 6.8.1 or newer. Virtual appliances also deploy in customer-managed cloud tenants on AWS or Azure.

* An additional 16 GB of memory (112 GB total) is required on the STS-200-VM when using the embedded sensor.

CentralStore – Hardware



SPECIFICATION	CS-550-E
Capacity	Up to 90 Gbps aggregated monitored bandwidth
Max Connected SiteStores	Up to 50
Management Interfaces	1G RJ45 (specified, not changeable)
Local Console	VGA connector for video; USB-A ports for keyboard, mouse Front: 1x USB-A 2.0; Back: 2x USB-A 3.0
Remote Management	IPMI
Form Factor	1U Rackmount
Field Replaceable Parts	Power Supply (2), Disk (6)
Power Supply	Dual 1100W (100–240 VAC), Hot Plug Redundant
Avg/Max Power Consumption	350 W / 1000 W
Avg/Max BTU/hr	1200 / 3500 BTU/hr
Operating Temperature Range	10°C ~ 35°C
Storage Temperature Range	-40°C ~ 65°C
HxDxW (in/mm)	1.68 × 17.08 × 27.26 in, 42.8 × 434 × 692.2 mm
Weight	30.2 lb / 13.7 kg
Certifications	CE, FCC Class A, UL, RoHS, TAA Compliant
Warranty Period	5 years

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CentralStore – Virtual

SPECIFICATION	CS-25-VM	CS-50-VM
Max Sustained Monitoring Bandwidth	50 Gbps	100 Gbps
Max Connected SiteStores	25	50
CPU (vCores)**	24	48
Memory (RAM)	96 GB	192 GB
Disk	10 TB 20k Read IOPS 40k Write IOPS	10 TB 50k Read IOPS 100k Write IOPS

Host Environment: VMware ESXi 6.7 or newer; VMware vSphere 6.7 or newer; Proxmox Virtual Environment (VE) 8.2 or newer; KVM/QEMU on Linux kernel 2.6.20 or newer; Microsoft Hyper-V 10.0.20348.1 running on Windows Server 2022 Standard or newer; Nutanix 6.8.1 or newer. Virtual appliances also deploy in customer-managed cloud tenants on AWS or Azure.

** vCPU performance should equate to dedicated threads of a Xeon E5-2680 v4 or better.

Dragos Agent – Active Collection

The Dragos Agent safely and selectively queries connected assets to collect detailed information, such as operating system details, firmware versions, patch status, and module data, for environments where passive monitoring alone may not suffice.

SPECIFICATION	DRAGOS AGENT
CPU	1 CPU (x64/arm64)
Memory	512 MB
Storage	512 MB
OS Support	Windows Server (all LTSC versions) Windows 7 Service Pack 2 and above Windows 10 Windows 11

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Commercial Off-the-Shelf (COTS)

For customers who prefer using their existing OEM hardware enterprise agreements, Dragos offers COTS appliance options with their Dragos Platform software subscription. The following hardware is validated by Dragos, with more to be added. Specific hardware configurations are required for Dragos Platform support. Consult your account team or contact sales@dragos.com.

Sensor – COTS

SPECIFICATION	LANNER 6041B	SEL-3350	SEL-3355	DELL R660XS	HPE PROLIANT DL360	HPE PROLIANT DL20 GEN 11 (4SFF)	HPE PROLIANT DL20 GEN 11 (NHP 2LFF)	YS-TECH YS-FIT2 (RUGGED)
Max Sustained Monitoring Bandwidth	25 Mbps	25 Mbps	250 Mbps	1 Gbps	3 Gbps	200 Mbps	200 Mbps	10 Mbps
Form Factor	DIN Rail Mount	1U Rackmount	3U Rackmount	1U Rackmount	1U Rackmount	1U Rackmount	1U Rackmount	DIN/VESA mount
Monitoring Interfaces	1 GbE RJ45 (4)	1 GbE RJ45 (4)	1 GbE RJ45 (1 built-in) Optional: up to 8 RJ45 Optional: up to 8 SFP (100BASE-FX SFP transceivers supported)	1 GbE RJ45 (4)	1 GbE RJ45 (2; built-in) 1 GbE RJ45 (4; adapter)	1 GbE RJ45 (2; built-in) 1 GbE RJ45 (4; adapter)	1 GbE RJ45 (4; built-in) 1 GbE RJ45 (4; adapter)	1 GbE RJ45 (2; built-in)
Power Supply	Dual 20–54 VDC (optional AC adapter available from supplier)	48 / 88 VDC (dual)	24 VDC (dual)	100–240 VAC auto-ranging	Two HPE 500 W Flex Slot Platinum Hot Plug Low Halogen Power Supply Kit	HPE 1,000 W Flex Slot Titanium Hot Plug Power Supply Kit	HPE 800 W Flex Slot Titanium Hot Plug Low Halogen Power Supply Kit	7–20 V (optional 9–36 V) DC / 5–15 W power adapter. Vehicle DC cable for YS-FIT2 (optional)
Operating Temperature Range	-40 °C to 70 °C	-40 °C to 85 °C	-40 °C to 70 °C	10 °C to 35 °C	10 °C to 35 °C	10 °C to 35 °C	10 °C to 35 °C	0 °C to 60 °C
Certifications	CE, FCC, UL, RoHS	CE, FCC, UL, RoHS	CE, FCC, UL, RoHS	CE, FCC, UL, RoHS	CE, FCC, UL, RoHS	CE, FCC, UL, RoHS	CE, FCC, UL, RoHS	CE, FCC, UL, RoHS

SiteStore – COTS

SPECIFICATION	DELL R6615	HPE DL325	HPE DL145
Max Sustained Monitoring Bandwidth	20 Gbps	20 Gbps	2 Gbps
Form Factor	1U Rackmount	1U Rackmount	2U Rackmount
Monitoring Interfaces	1G RJ45 (1)	1G RJ45 (3)	1G RJ45 (3)
Power Supply	Dual 1100 W Hot Plug (100–240 VAC)	Dual 1100 W Redundant PSU	Dual 1100 W Redundant PSU
Operating Temperature Range	10 °C to 35 °C	10 °C to 35 °C	10 °C to 35 °C
Certifications	CE, FCC, UL	CE, FCC, UL	CE, FCC, UL

CentralStore – COTS

SPECIFICATION	DELL R6615	HPE DL325	HPE DL145
Max Sustained Monitoring Bandwidth	20 Gbps	20 Gbps	2 Gbps
Form Factor	1U Rackmount	1U Rackmount	2U Rackmount
Monitoring Interfaces	1G RJ45 (1)	1G RJ45 (3)	1G RJ45 (3)
Power Supply	Dual 1100 W Hot Plug (100–240 VAC)	Dual 1100 W Redundant PSU	Dual 1100 W Redundant PSU
Operating Temperature Range	10 °C to 35 °C	10 °C to 35 °C	10 °C to 35 °C
Certifications	CE, FCC, UL	CE, FCC, UL	CE, FCC, UL

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Supported Protocols

Dragos Sensors decode over 600 industrial protocols. The complete, current list is maintained as a separate reference and updated with each Knowledge Pack and Platform release. That list is available at dragos.com/resources/datasheet/dragos-supported-protocols.

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About Dragos

Dragos delivers xOT cybersecurity for industrial and critical infrastructure, backed by a decade of frontline incident response experience. The Dragos Platform provides asset visibility, continuous monitoring, vulnerability management, and real-time threat detection, all powered by industry-leading intelligence. Dragos protects OT environments globally, including electric, oil & gas, manufacturing, water, and transportation.

Learn more: dragos.com



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