Darktrace Appliance Specifications

Darktrace appliances are highly tuned, high performance pieces of hardware that host the Darktrace platform. There are multiple types of Darktrace appliance, with different throughput capacities and options for data ingestion.

Darktrace's technical experts will help you decide which type of appliance you need based on the organization's bandwidth and the number of internal devices present.

DCIP-S: Ideal for small deployments with a limited number of devices. It can be configured as a probe to act as a collector in larger deployments. The DCIP-S appliance contains the following ports:

- 1 x out-of-band interface
- 1 x 1Gbe admin interface
- 3 x 1Gbe analysis ports

Figure 1: DCIP-S

DCIP-M: Small to Medium sized companies typically choose the Medium DCIP as they're 25x more powerful than a small in terms of connection count capacity. The DCIP-M appliance contains the following physical ports:

- 1 x out-of-band interface
- 1 x 1Gbe admin interface
- 3 x 1Gbe analysis port
- 2 x SFP+ analysis ports

DCIP-X2: The Darktrace DCIP-X2 series appliances are capable of ingesting data from multiple sources over different types of cable media. The X2 series is suitable for deployment in higher capacity environments and can operate as a master or probe as part of a distributed Darktrace deployment, or can function as a standalone device. The X2 series can be further expanded by additional network interface modules to provide further flexibility in deployment configuration. The DCIP-X2 appliance contains the following physical ports:

- 1 x out-of-band interface
- 1 x 1Gbe admin interface
- 1 x 1Gbe analysis port
- 2 x 1Gbe / 10Gbe analysis ports
- 2 x SFP+ analysis ports

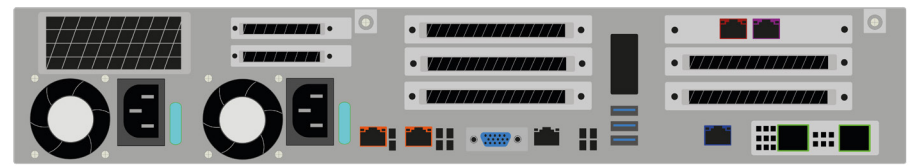

Figure 2: DCIP-X2

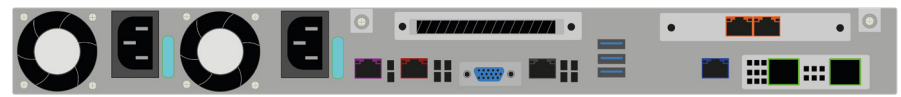

Figure 3: DCIP-M

DCIP-Z: The DCIP-Z series combine maximum processing power and high speed disk access. DCIP-Z appliances are suited to be placed as master appliances at the core of a high throughput master/probe distribution. The DCIP-Z appliance contains the following physical ports:

- 1 x out-of-band interface
- 1 x 1Gbe admin interface
- 1 x 1Gbe analysis port
- 2 x 1Gbe / 10Gbe analysis ports
- 2 x SFP+ analysis ports

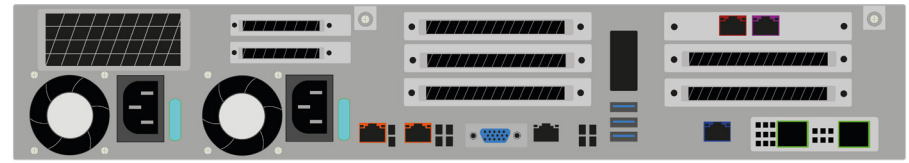

Figure 4: DCIP-Z

DCIP-XA: The DCIP-XA appliance combines the hardware power of the DCIP-X2 series with an FPGA NIC designed to pre-process incoming traffic. XA appliances are suited as probe appliances for high bandwidth environments, for situations that would otherwise require multiple probe appliances. The DCIP-XA appliance has the following physical network interfaces:

- 1 x 1Gbe admin interface
- 1 x Out of Band interface
- 4 x 10Gbe SFP+ analysis port OR 1 x 40Gbe QSFP+ analysis port

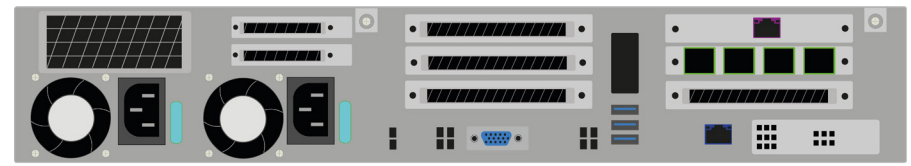

Figure 5: DCIP-XA

Peak sustained throughput, maximum unique internal devices and maximum connections per minute are dependent on the type of traffic analyzed, the behavior of the devices and the application of software features. The values in this table have been derived from real-world corporate networks, and refer to a sustained rate, allowing for traffic peaks. Every network is different and so these metrics should be used as a guide only. In addition, the exact throughput capacity of any metric is dependent on the type and nature of the traffic seen by Darktrace.

Peak sustained throughput is the 95th percentile of bandwidth ingestion.

	DCIP-S	DCIP-M	DCIP-X2	DCIP-Z	DCIP-XA
Form factor	1U rack mountable (half-deapth)	1U rack mountable	2U rack mountable	2U rack mountable	2U Rackmount
Dimensions (in)	17.32” x 14.57” x 1.73”	17.32” x 29.33” x 1.73”	17.32” x 29.33” x 3.46”	17.32” x 29.33” x 3.46”	17.32” x 29.33” x 3.46”
Dimensions (cm)	44cm x 37cm x 4.4cm	44cm x 74.5cm x 4.4cm	44cm x 74.5cm x 8.8cm	44cm x 74.5cm x 8.8cm	44cm x 74.5cm x 8.8cm
Weight (lbs / Kg)	13.3 lbs / 6 Kg	33 lbs / 15 kg	51 lbs / 23 Kg	51 lbs / 23 Kg	51 lbs / 23 Kg
Racking	Fits 19” Rack	Fits 19” rack	Fits 19” rack	Fits 19” rack	Fits 19” rack
Interface admin ports	1 x 10/100/1000 BASE-T	1 x 10/100/1000 BASE-T	1 x 10/100/1000 BASE-T	1 x 10/100/1000 BASE-T	10/100/1000 BASE-T
Remote management ports	1 x 10/100/1000 BASE-T	1 x 10/100/1000 BASE-T	1 x 10/100/1000 BASE-T	1 x 10/100/1000 BASE-T	1 x 10/100/1000 BASE-T
Copper analysis ports	3 x 10/100/1000 BASE-T	3 x 10/100/1000 BASE-T	1 x 10/100/1000 BASE-T 2 x 10 GBASE-T	1 x 10/100/1000 BASE-T 2 x 10 GBASE-T	N/A
SFP+ analysis ports	n/a	2 x 10Gbe/1Gbe SFP+	2 x 10Gbe/1Gbe SFP+	2 x 10Gbe/1Gbe SFP+	4 x 10 Gbe/1 Gbe SFP+ OR 1 x 40Gbe QSFP+ on FPGA NIC
Peak sustained throughput	Up to 300 Mbps	Up to 2Gbps	Up to 5Gbps	Up to 5Gbps	20Gbps
Maximum unique internal devices	Up to 1000 devices analyzed	Up to 8,000 devices analyzed	Up to 36,000 devices analyzed	Up to 50,000 devices analyzed	N/A

	DCIP-S	DCIP-M	DCIP-X2-11G	DCIP-Z	DCIP-XA
Maximum connections per minute	2,000	50,000	100,000	250,000	250,000
Power supply	Single 350W IEC 13C 100/240V	Dual 750W IEC 13C 100/240V	Dual 1100W IEC 13C 100/240V	Dual 1100W IEC 13C 100/240V	Dual 1300W IEC C13 100/240V
Power consumption	Idle 26 W - 89 BTU/hr	Idle 120 W - 409 BTU/hr*	Idle: 128 W - 436 BTU/hr**	Idle: 128 W - 436 BTU/hr**	Idle: 128W - 436 BTU/hr
	85% 89 W - 305 BTU/hr Max 105 W – 358 BTU/hr	85% 359 W - 1224 BTU/hr Max 418 W – 1426 BTU/hr	85%: 365 W - 1245 BTU/hr Maximum: 426 W - 1453 BTU/hr	85%: 365 W - 1245 BTU/hr Maximum: 426 W - 1453 BTU/hr	85%: 365W - 1245 BTU/hr, Max 426W 1453 BTU/hr
Supported Expansion Modules	Can support one expansion model: • 2-port 1G/10G SFP+ • 2-port 1G RJ45 1000 BASE-T • 4-port 1G RJ45 1000 BASE-T	Can support one expansion model: • 2-port 1G/10G SFP+ • 2-port 10G RJ45 10000 BASE-T • 2-port 1G RJ45 1000 BASE-T • 4-port 1G RJ45 1000 BASE-T	Can support up to three expansion models: • 2-port 1G/10G SFP+ • 2-port 10G RJ45 10000 BASE-T • 2-port 1G RJ45 1000 BASE-T • 4-port 1G RJ45 1000 BASE-T	Can support up to three expansion models: • 2-port 1G/10G SFP+ • 2-port 10G RJ45 10000 BASE-T • 2-port 1G RJ45 1000 BASE-T • 4-port 1G RJ45 1000 BASE-T	N/A
Safety certificate	UL 60950-CSA 60950, EN 60950, IEC 60950 CB Certicate & Report, IEC 60950				
EMI Certification	FCC Part 15, Class A (CFR 47) (USA), ICES-003 Class A				

*In some cases, DCIP-M appliances will have a power supply of Dual 750W IEC 13C 100/240V.

**In some cases, DCIP-X2-11G and DCIP-Z appliances will have a power supply of Dual 1100W IEC 13C 100/240V

About Darktrace

Darktrace is the world's leading cyber AI company and the creator of Autonomous Response technology. Its self-learning AI is modeled on the human immune system and used by over 4,500 organizations to protect against threats to the cloud, email, IoT, networks and industrial systems.

The company has over 1,500 employees and is headquartered in Cambridge, UK. Every 3 seconds, Darktrace AI fights back against a cyber-threat, preventing it from causing damage.

For more information

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