

# 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

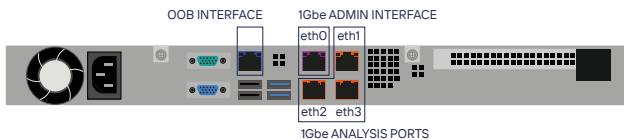


Figure 1: DCIP-S

**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

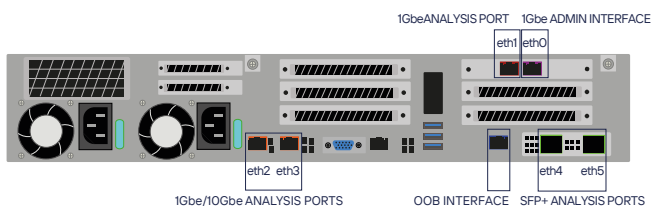


Figure 2: DCIP-X2

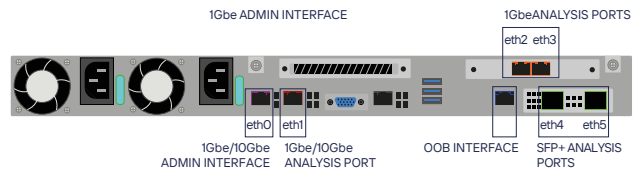


Figure 3: DCIP-M

**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

**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

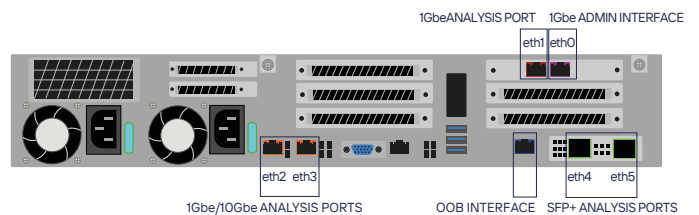


Figure 4: DCIP-Z

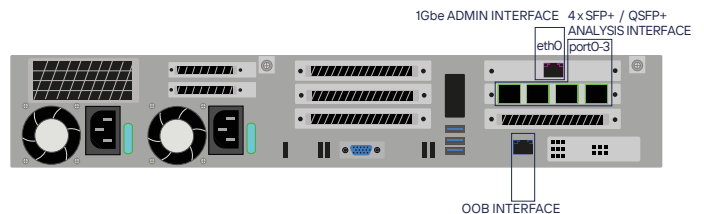


Figure 5: DCIP-XA

	DCIP-S	DCIP-M	DCIP-X2	DCIP-Z	DCIP-XA
Form factor	1U rack mountable (Half-depth)	1U rack mountable	2U Rack mountable	2U rack mountable	2U rack mountable
Dimensions (in)	17.32" x 14.57" x 1.73"	17.32" x 29.33" x 1.73"	17.32" x 29.33" x 1.73"	17.32" x 29.33" x 1.73"	17.32" x 29.33" x 1.73"
Dimensions (cm)	44 x 37 x 4.4	45 x 74.5 x 4.4	46 x 74.5 x 4.4	47 x 74.5 x 4.4	48 x 74.5 x 4.4
Weight (lbs / Kg)	13.3lbs / 6kg	33lbs / 15kg	51lbs / 23kg	51lbs / 23kg	51lbs / 23kg
Racking	19" rack	19" rack	19" rack	19" rack	19" rack
Admin Interface	1x10/100/1000 BASE-T	1x1000 BASE-T	1x1000 BASE-T	1x1000 BASE-T	1x1000 BASE-T
Remote Management Interface	1x10/100/1000 BASE-T	1x1000 BASE-T	1x1000 BASE-T	1x1000 BASE-T	1x1000 BASE-T
Copper analysis interphases	3x10/100/1000 BASE-T	3x1000 BASE-T	1x1000 BASE-T, 2x 10G BASE-T	1x1000 BASE-T, 2x 10G BASE-T	N/A
Fibre analysis interfaces	N/A	2x10Gbe/1Gbe SFP+	2x10Gbe/1Gbe SFP+	2x10Gbe/1Gbe SFP+	4x10Gbe/1Gbe SFP+ OR 1x40Gbe QSFP+ on FPGA NIC
Power Supply	Single 350W IEC 13C 100/240V	Dual 1100W IEC 13C 100/240V	Dual 1300W IEC 13C 100/240V	Dual 1300W IEC 13C 100/240V	Dual 1300W IEC 13C 100/240V
Power Consumption	Idle: 26W - 89 BTU/hr	Idle: 120W - 409 BTU/hr	Idle: 128W - 436 BTU/hr	Idle: 128W - 436 BTU/hr	Idle: 128W - 436 BTU/hr
	85%: 89W - 305 BTU/hr	85%: 359W - 1224 BTU/hr	85%: 365W - 1245 BTU/hr	85%: 365W - 1245 BTU/hr	85%: 365W - 1245 BTU/hr
	Max: 105W - 358 BTU/hr	Max: 418W - 1426 BTU/hr	Max: 426W - 1453 BTU/hr	Max: 426W - 1453 BTU/hr	Max: 426W - 1453 BTU/hr
Supported Expansion Modules	Can support one expansion model: <ul style="list-style-type: none"> <li>○ 2-port 1G/10G SFP+</li> <li>○ 2-port 1G RJ45 1000 BASE-T</li> <li>○ 4-port 1G RJ45 1000 BASE-T</li> </ul>	Can support one expansion model: <ul style="list-style-type: none"> <li>○ 2-port 1G/10G SFP+</li> <li>○ 2-port 10G RJ45 10000 BASE-T</li> <li>○ 2-port 1G RJ45 1000 BASE-T</li> <li>○ 4-port 1G RJ45 1000 BASE-T</li> </ul>	Can support up to three expansion models: <ul style="list-style-type: none"> <li>○ 2-port 1G/10G SFP+</li> <li>○ 2-port 10G RJ45 10000 BASE-T</li> <li>○ 2-port 1G RJ45 1000 BASE-T</li> <li>○ 4-port 1G RJ45 1000 BASE-T</li> </ul>	Can support up to three expansion models: <ul style="list-style-type: none"> <li>○ 2-port 1G/10G SFP+</li> <li>○ 2-port 10G RJ45 10000 BASE-T</li> <li>○ 2-port 1G RJ45 1000 BASE-T</li> <li>○ 4-port 1G RJ45 1000 BASE-T</li> </ul>	N/A
Safety Certificate	UL 60950-CSA 60950, EN 60950, IEC 60950 CB Certificate & Report, IEC 60950				
EMI Certification	FCC Part 15, Class A (CFR 47) (USA), ICES-003 Class A				

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.

	DCIP-S	DCIP-M	DCIP-X2	DCIP-Z	DCIP-XA
Maximim Unique Internal Devices Analyzed	6,000	30,000	50,000	100,000	50,000
Peak Sustained Throughput (Master)	500Mbps	3Gbps	5Gbps	5Gbps	20Gbps
Peak Sustained Throughput(Probe)	800Mbps	4Gbps	7Gbps	7.5Gbps	20Gbps
Connections Per Minute (Dedicated Master)	30,000	300,000	500,000	1,000,000	N/A
Connections Per Minute (Master)	20,000	200,000	250,000	500,000	350,000
Connections Per Minute (Probe)	40,000	300,000	500,000	600,000	500,000
Events Per Minute (Dedicated Master)	25,000	700,000	1,000,000	3,000,000	1,000,000
Events Per Minute (Master)	15,000	400,000	600,000	1,500,000	600,000

### Notes:

- These are guidance numbers. Exact performance may vary depending on a number of factors that may be unique to the network being analysed, e.g. device connectivity patterns
- Capabilities are estimated on most current version of hardware at time of publication.
- Reducing bandwidth can increase CPM allowance. A 50% reduction in bandwidth can allow for a 50% CPM increase.
- Reducing CPM can allow for a bandwidth increase. A 50% reduction in CPM can allow for a 25% increase in bandwidth.
- Sustained throughput at stated maximums can result in overloading at peak times. It is recommended to stay below these maximum specifications to ensure consistent service. Some unsupervised learning may be turned off during periods of high load.

