

Datasheet

Skylight sensor: modules

1G and 10G service assurance and demarcation

Add key performance assurance features to address the end-to-end service lifecycle—including service activation testing (SAT), continuous performance monitoring, passive flow metering and capture, and MEF-type service demarcation, assurance and connectivity fault management (CFM). All this in a small form factor module automated and orchestrated through Skylight sensor: control software.

These modules are equipped with a fully-featured FPGA capable of active Layer 2-4 testing and traffic generation, in a compact, power-efficient footprint—without compromising performance, scalability, and precision. This makes Skylight modules an ideal fit for cost and space-sensitive applications, where performance is a key service differentiator.



Skylight sensor:
module 10G



Skylight sensor:
module 1G



Skylight sensor:
module 1G outdoor

1G modules

Model	Speed	Power Supply	Ports	DHCP Enabled	CLEI Label	Bypass for Electrical Ports	Temp. Hardened	Part Number
sensor: module SC	1000 Mbps	External	1 x SFP 1 x RJ45		•		•	772-350
sensor: module 1G	100/1000 Mbps	Internal AC	2x combo		•			772-213
	100/1000 Mbps	Internal AC	2x combo	•	•			772-214
	100/1000 Mbps	Internal AC	2x combo	•	•	•		772-217
	100/1000 Mbps	Internal AC	2x combo		•	•		772-218
	100/1000 Mbps	Internal AC	2x combo		•		•	772-313
	100/1000 Mbps	Internal AC	2x combo	•	•		•	772-314
	100/1000 Mbps	Internal AC	2x combo	•	•	•	•	772-317
	100/1000 Mbps	Internal AC	2x combo		•	•	•	772-318
	100/1000 Mbps	Internal AC	2x RJ-45		•			772-413
	100/1000 Mbps	Internal AC	2x RJ-45	•	•			772-414
	100/1000 Mbps	Internal AC	2x RJ-45	•	•	•		772-417
	100/1000 Mbps	Internal AC	2x RJ-45		•	•		772-418
	100/1000 Mbps	DC	2x combo		•			772-203
	100/1000 Mbps	DC	2x combo	•	•			772-204
	100/1000 Mbps	DC	2x combo	•	•	•		772-207
	100/1000 Mbps	DC	2x combo		•	•		772-208
	100/1000 Mbps	DC	2x combo		•		•	772-303
	100/1000 Mbps	DC	2x combo	•	•		•	772-304
100/1000 Mbps	DC	2x combo		•	•	•	772-306	
100/1000 Mbps	DC	2x combo	•	•	•	•	772-307	

10G modules

Model	Speed	Power Supply	Ports	CLEI Label	Temp. Hardened	Part Number
sensor: module 10G	1/10 Gbps	AC	2x SFP+	•		775-040
	1/10 Gbps	DC	2x SFP+	•		775-020
	1/10 Gbps	AC	2x SFP+	•	•	775-140
	1/10 Gbps	DC	2x SFP+	•	•	775-120

1G specifications

Power & Connectivity	
AC Power Input	100-240 VAC, 0.4 A max, 50-60 Hz
DC Power Input	20-57 VDC, 0.75 A max
Physical Specifications	
Dimensions	1.42 H x 4.67 W x 5.25 D in. (36.1 H x 118.6 W x 133.4 D mm)
Weight	AC 625 g or 22 oz. DC 590 g or 21 oz.
Environmental	
Operating Temperature	0°C to +50°C (Commercial) -40°C to +65°C (Industrial)
Maximum Altitude	2000 meters above sea level
Cold Start	-25°C
Storage Temperature	-40°C to +70°C
Operating/Storage Humidity	5-95% RH, non-condensing
Regulatory and Certification	
FCC Part 15 Class B, ICES-003 Class B	

1G outdoor specifications

Power & Connectivity	
Input Voltage	20 to 28 VDC
Power Consumption	4.25W Nominal 6.0W Maximum (including a 2.0 W SFP)
Interfaces	
Client Interface	One RJ45 port 100/1000BASE-T
Network Interface	One SFP port 1000BASE-X
Physical Specifications	
Dimensions (W x H x D)	100mm x 145mm x 60mm / 3.9" x 5.7" x 2.4"
Weight	0.75 kg / 26.5 oz.
Environmental	
Operating Temperature	-40°C to +65°C (no Solar Load) -40°C to +55°C (with Solar Load)
Storage Temperature	-40°C to +70°C
Operating Humidity	5-100% RH, Condensing
Storage Humidity	5-95% RH, Non-Condensing
Ingress Protection (Sealing)	IP67, Type-4 (watertight)
Maximum Altitude	2000 meters above sea level
Regulatory and Certification	
Environmental: ETSI 300 019 class 4.1, EN 60529 IP67, UL 50E / CSA C22.2 No 94.2 Type-4 Safety: IEC/EN/UL/CSA 60950-1 & 60950-22 EMC: FCC Part 15 Class B, ICES-003 Class B	

10G specifications

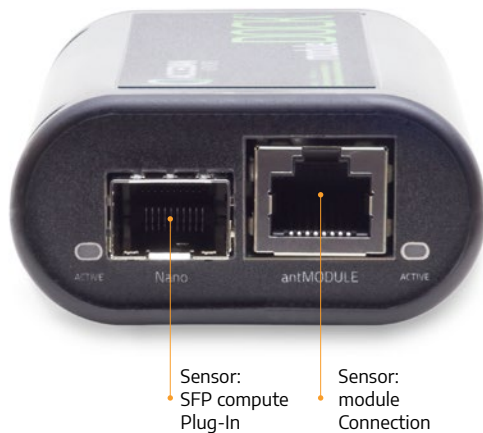
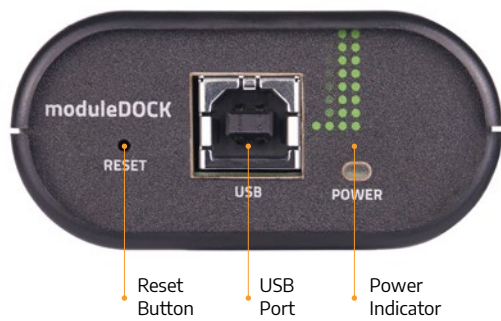
Power & Connectivity	
DC Power Input	20-57 VDC, 1.75 A MAX
AC Power Input	100-240 VAC, 50-60 Hz, 0.6 A MAX
Physical Specifications	
Dimensions	1.5 H x 5.7 W x 7.8 D in. (38.1 H x 145 W x 198 D mm)
Weight	100 g or 53 oz.
Environmental	
Operating Temperature	0°C to +50°C (Commercial) -40°C to +65°C (Industrial with CoolBreeze Fan Tray)
Maximum Altitude	2000 meters above sea level
Storage Temperature	-40°C to +70°C
Operating/Storage Humidity	5-95% RH, non-condensing (Temperature hardened)
Regulatory and Certification	
FCC Part 15 Class A, ICES-003 Class A	

1G SFP port power limits

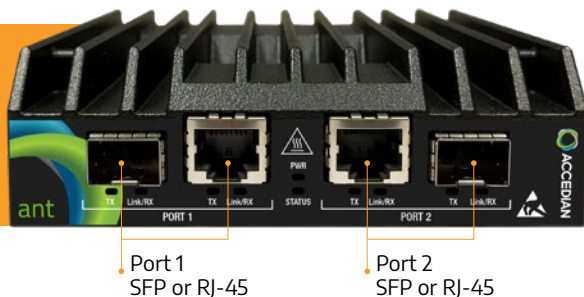
Max Power per SFP port	SFP Type	Installation Location	Ambient Operating Temperature
Commercial operating temperature			
1.1 W	Commercial (70°C)	Any Area	50°C
2.5 W	Industrial (85°C)	Any Area	50°C
Industrial (temp. hardened) operating temperature			
1.1 W	Industrial (85°C)	Restricted Access	65°C
2.5 W	Industrial (85°C)	Any Area	50°C
The maximum power per SFP slot depends on the Skylight sensor: module type, the SFP type, the installation location and the ambient operating temperature of the unit. Total Power Budget for SFP Slots = 3.4 W			

10G SFP+ port power limits

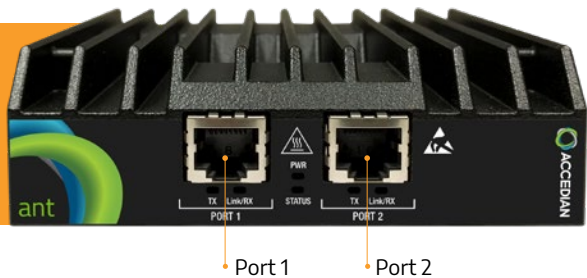
Max Power per SFP port	SFP Type	Installation Location	Max Ambient Operating Temperature
Commercial operating temperature			
1.5 W	Commercial (Tcase 70°C)	Ordinary Location	40°C
2.0 W	Industrial (Tcase 85°C)	Restricted Access Area	50°C
Industrial (temp. hardened) operating temperature			
1.5 W	Industrial (Tcase 85°C)	Restricted Access	65°C
2.0 W	Industrial (Tcase 85°C)	Ordinary Location	55°C
The maximum power per SFP slot depends on the installation location, the Skylight sensor: module type, the SFP type and the maximum operating temperature of the unit. Details provided in the Installation Guide			



2x
Combo
Ports



2x
RJ-45



Contact us

For detailed specifications, ask for a copy of our Capabilities Matrix. Our engineers can help you select the right unit for your application:

Accedian.com/Contact

Dock specifications

Power & Connectivity

Supply / Voltage	USB 2.0
Maximum Power Consumption	2.5 W

LED Indicators

RJ45 module activity LED
SFP module activity LED
Product LED for power and status

Cooling

Passive (fanless device)

Physical Specifications

Dimensions	1.15" H x 2.3" W x 5.4" D in. (30 H x 58 W x 137 D mm)
Weight	115 g (4 oz.)

Environmental

Standard Operating Temperature	0°C to +50°C
Storage Temperature	-40°C to +70°C
Maximum Altitude	2000 meters above sea level
Operating/Storage Humidity	20-80% RH, non-condensing

Language Support

The language of the AMD's application interface can be changed on-the-fly without restarting.

Current	English
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Warranty

One-year limited warranty covering parts and labor

Regulatory and Certification

FCC Part 15 / ICES 003 Class A
CE Marking approval
WEEE compliant

Models

Model	Description	Part Number
AMD-1000-DX	• 1 x 12" (30cm) USB 2.0 cable	773-000