

ant 10G



Network Performance Modules

Benefits

Virtualized, programmable instrumentation for QoS monitoring, OAM, and turn up testing in compact, fanless, cost-effective modules:

- Low-latency, wire-speed packet processing for uncompromised performance
- Zero-touch Plug & Go™ auto provisioning for customer self-install
- Full line-rate loopback support for popular third-party test sets, 802.3ah & Y.1731 OAM standards works with existing infrastructure
- Service activation testing: RFC-2544 (generation* and reflection) & Y.1564 (reflection and generation) including multi-flow traffic generation which eliminates the need for on-site testing
- Fine-grained Layer 2 and Layer 3 flow metering
- Standards-based+ Layer 2 & 3 (IPv4 and IPv6) TWAMP Lite (RFC-5357)–reflection and NFV-based initiation performance monitoring for core-to-edge QoS visibility
- IPv4 & IPv6 management
- DOCSIS-friendly management integration for easy BSoD deployments
- NFV-extensible feature set

* Future capability

Accedian network performance modules provide an innovative way to add key performance assurance features, addressing the full end-to-end service lifecycle—including service activation testing (SAT), continuous performance monitoring, remote troubleshooting, and connectivity fault management (CFM) to deployed Carrier Ethernet and IP services.

The newest member of the Accedian performance module series, the ant 10G module employs a fully-featured FPGA capable of active Ethernet testing and traffic generation, in a compact, power-efficient footprint—without compromising performance, scalability, and precision. This makes Accedian modules an ideal fit for cost and space-sensitive unit for the fast growing 10G applications, where performance is even more of a key service differentiator.

The ant 10G leverages the same capabilities as the ant and Nano performance modules, as well as support for more advanced features such as traffic management (regulators, quality of service/QoS, policing, VLAN tag manipulation), fine-grained flow metering (bandwidth monitoring), and FlowBROKER™—the unique remote packet capture functionality available with the SkyLIGHT VCX solution.

Key Applications

The densification of service endpoints demands cost-effective QoS visibility with the accuracy and low-latency performance unmatched by merchant silicon. Wire-speed processing ensures peak performance in demanding small cell / LTE backhaul, and business services vCPE applications.

Ant 10G modules enhance existing legacy network elements, and enrich greenfield deployments with added performance assurance functionality, saving truck rolls and driving down operational expenses to fit cost-competitive business models. These modules can be installed in-line or out, allowing service providers to upgrade legacy networks without downtime or configuration changes.

With the additional capabilities provided with the next-generation ant, operators can gain deeper insights about the performance of their network. For example, with FlowBROKER, operators can now obtain further details about the quality of experience (QoE) of the streaming media services (YouTube, Netflix, etc.) they provide to their end customers.

Sharing the same firmware and field-upgradable FPGA-based hardware architecture, ant and Nano performance modules interoperate with each other, as well as with the rest of the Accedian performance elements, actuators, virtual controllers and programmable platforms to deliver a scalable core-to-edge performance-assured networking solution tailored to specific applications.

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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	

SFP Power Capabilities


Max Power per SFP	SFP Type	Installation Location	Max Ambient Operating Temperature
ant-10G Module – Commercial Operating Temp			
1.5 W	Commercial (T _{case} 70°C)	Ordinary Location	40°C
2.0 W	Industrial (T _{case} 85°C)	Restricted Access Area	50°C
ant-10G Module – Industrial Operating Temp			
1.5 W	Industrial (T _{case} 85°C)	Restricted Access	65°C
2.0 W	Industrial (T _{case} 85°C)	Ordinary Location	55°C

The maximum power per SFP slot depends on the installation location, the ant-10G, the SFP type and the maximum operating temperature of the unit. Details provided in the Installation Guide

ant 10G with CoolBreeze Fan Tray



Models

Model	Speed	Power Supply	Ports	CLEI Label	Hardened	Part Number
	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

Accessories

Description	Part Number
DC Power Accessories	
DC Terminal Block Adaptor	720-010
DC Power Cable, NA	720-00S
DC Power Cable, EU	720-0ES
AC Power Accessories	
Power Cord - North America	721-020
Power Cord - Europe	721-021
Power Cord - U.K.	721-022
Power Cord - Japan	721-023
Power Cord - Singapore	721-025
Power Cord - Australia / New Zealand	721-026
Power Cord - Switzerland	721-027
Power Cord - Italy	721-028
Power Cord - China	721-030
Power Cord - Brazil	721-02Q
Mounting Accessories	
19" Rackmount Bracket, fits 2 ant-10G units	706-040
23" Rackmount Bracket, fits 3 ant-10G units	706-041
19" Rackmount Bracket, Recessed, fits 2 ant-10G units	706-050
23" Rackmount Bracket, Recessed, fits 3 ant-10G units	706-051
Wall Mount Kit	709-060
CoolBreeze Fan Tray	
Field replaceable Fan Tray unit for hardened applications	760-042

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