

## Datasheet

# Skylight performance element: TE & TE-R

## Models TE, TE-S, TE-R, TE-RS

The Skylight TE performance element is a compact, fanless, 1 gigabit Ethernet platform with ultra-low latency packet forwarding and jitter. The TE is an exceptional performance element, combining networking capabilities, MEF CE2.0 service creation and assurance along with the features of a high-end test set. Operationally efficient and packed with advanced troubleshooting tools, the TE is an award-winning, telecom-grade unit with a proven track record of delivering exceptional end-to-end performance year-after-year.

Valued for its microsecond latency and jitter, compact, and power-efficient footprint as well as exceptional reliability the Skylight TE performance element is the industry leading endpoint for macro-cell mobile backhaul and business Ethernet services and assurance. It is tailored for QoS-critical, delay-sensitive applications. Used to provision, turn-up, monitor and optimize service delivery and monitoring, the TE is deployed extensively by service providers offering SLA-assured services in over 280,000 sites worldwide.

The TE-R offers an electrical-bypass option to provide redundancy in case of a power failure for increased network reliability.

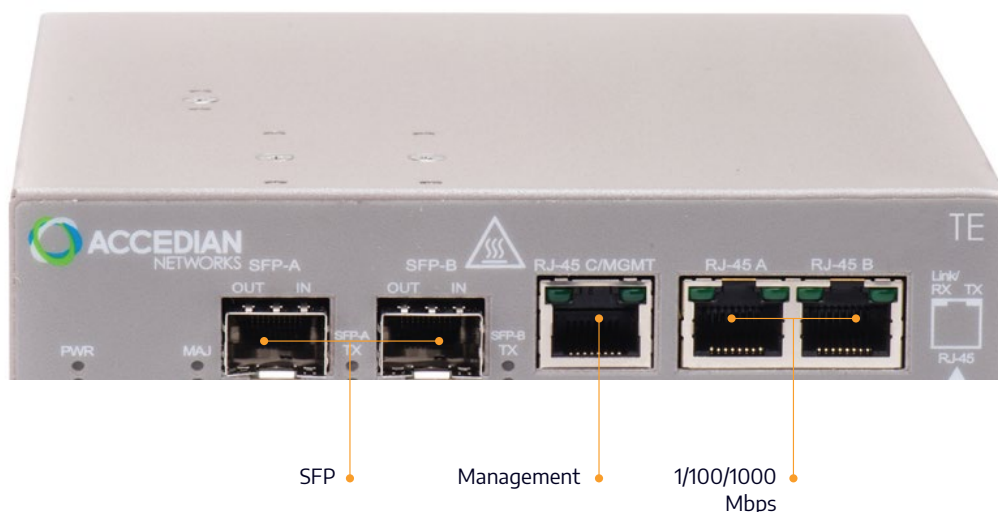
A programmable, patented dual-plane FPGA architecture powers the TE's unique combination of integrated features:

- Wire-speed, MEF-certified Carrier Ethernet service delivery
- Y.1564/RFC2544 Service Activation Testing (SAT)
- Layer 2 Service OAM, including Y1731 and PAA
- Layer 3 TWAMP Light reflection
- MEF-based QoS enforcement and granular traffic shaping

Zero-touch provisioning and IPv4/IPv6 management make these performance elements easy and secure to deploy and manage.

Fully integrated with the Skylight Orchestrator and Analytics solutions, it supports service delivery automation and scalable metrics collection and reporting along with actionable insights and machine learning for accelerated service roll-out and improved operational efficiencies.

The TE and TE-R interoperate with other Accedian performance elements and sensors to deliver a scalable end-to-end and core-to-edge performance assured networking solution tailored to your applications.



The port layout of the TE-R is identical to the TE

## TE & TE-R specifications

<b>Power &amp; connectivity</b>	
DC input	Dual (A/B), 20-57 VDC, 0.65 A max
Auxiliary input	5 VDC, 2.1 A max
Power consumption	<13 watts
Maximum SFP socket power consumption	1.05 watts per socket
<b>Physical specifications</b>	
Dimensions	1.4" H x 5.7" W x 6.1" D in. (35 H x 145 W x 155 D mm)
Weight	0.8 kg or 1.76 lbs
<b>Environmental</b>	
Standard operating temperature	0°C to +50°C (standard) 0°C to +40°C (when powered with the external AC/DC power supply)
Hardened operating temperature (-H models only)	-40°C to +65°C
Storage temperature	-40°C to +70°C
Operating/storage humidity	5-95% RH, non-condensing
<b>Regulatory and certification</b>	
Certification safety model name (unique identifier): NIDG+, NID+ IEC 60950-1 / UL 60950-1 / CSA C.22.2 No 60950-1 FCC Part 15 Class A, Industry Canada ICES-003 CE marking and RoHS compliant, WEEE compliant Contact Accedian for others market(s) certification's status MTBF > 132 yrs at 25°C per Telcordia SR-332 method issue 2 > 64 yrs at 40°C per Telcordia SR-332 method issue 2 NEBS Level 3 Compliant with MEF20 (UNI type II) Compliant with MEF22 (ethernet mobile backhaul)	

## TE models

Model	Copper interfaces (RJ-45)	Optical interfaces (SFP)	MGT interface	Temp. hardened	GPS	SyncE	Part number
TE	2	2	•				716-0PP
TE-G	2	2	•		•		716-2PP
TE-Y	2	2	•			•	716-4PP
TE-H	2	2	•	•			716-1PP
TE-GH	2	2	•	•	•		716-3PP
TE-YH	2	2	•	•		•	716-5PP

## TE-S models (all SFP)

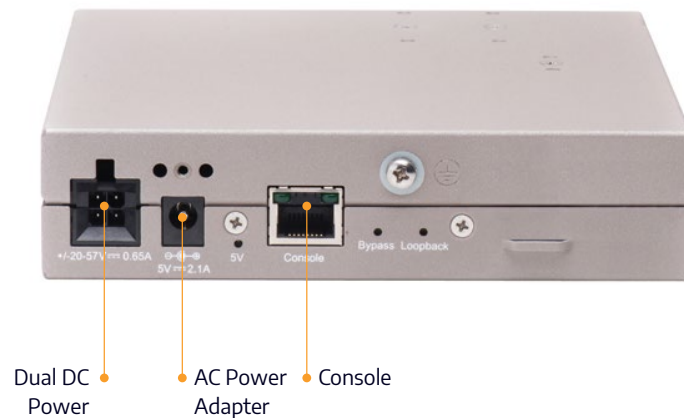
Model	Copper interfaces (RJ-45)	Optical interfaces (SFP)	MGT interface	Temp. hardened	GPS	SyncE	Part number
TE-SG	0	4	•		•		717-2PP
TE-SY	0	4	•			•	717-4PP
TE-SH	0	4	•	•			717-1PP
TE-SGH	0	4	•	•	•		717-3PP
TE-SYH	0	4	•	•		•	717-5PP

## TE-R models

Model	Copper interfaces (RJ-45)	Optical interfaces (SFP)	MGT interface	Temp. hardened	GPS	SyncE	Part number
TE-R	2	2	•				715-0PP
TE-RG	2	2	•		•		715-2PP
TE-RY	2	2	•			•	715-4PP
TE-RH	2	2	•	•			715-1PP
TE-RGH	2	2	•	•	•		715-3PP
TE-RYH	2	2	•	•		•	715-5PP

## TE-RS models (all SFP)

Model	Copper interfaces (RJ-45)	Optical interfaces (SFP)	MGT interface	Temp. hardened	GPS	SyncE	Part number
TE-RS	1	4	•				718-0PP
TE-RSG	1	4	•		•		718-2PP
TE-RSY	1	4	•			•	718-4PP
TE-RSH	1	4	•	•			718-1PP
TE-RSGH	1	4	•	•	•		718-3PP
TE-RSYH	1	4	•	•		•	718-5PP



## Power options & accessories

19" and 23" rackmount and wall mount options as well as AC power options also available with this product. Please refer to the Accedian ordering guide for details about the different accessories available with this product.

## 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](https://www.accedian.com/contact)**