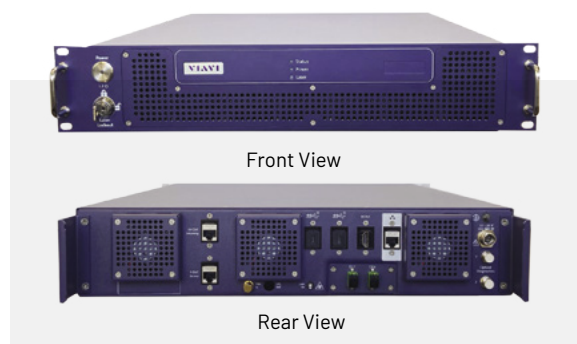# FTH-DAS

Fiber Test Head - Distributed Acoustic Sensing

The FTH-DAS is a compact, 2U, 19" rack mounted fiber test head
for fiber-enabled, continuous, real-time asset monitoring

Front View

Rear View

FTH- DAS
Dual Channel Acoustic Sensing Interrogation Unit

Typical Specifications

Parameter	Feature	Value
Optical	Number of Channels	Two simultaneous
	Fiber Type (Typical)[1]	Single mode 15xx nm ITU G652 series and G657 series. Works with most variants of G655 and G656 and may work with other fiber types (please consult VIAVI)
	Operation Mode	Intensity
	Spatial Resolution	Minimum 0.33 m, user-selectable
	Spatial Sampling Interval	0.67 m
	Interface	E2000 APC optical connectors
Sensing Cable Length	Maximum length on each channel[2]	50 km
Frequency Information	Min. Detection Frequency	1 Hz
	Max. Frequency Response	1 km cable = 50 kHz
		5 km cable = 10 kHz
		20 km cable = 2.5 kHz
		40 km cable = 1.25 kHz
		50 km cable = 1.0 kHz

beyond borders

Typical Specifications continued

Parameter	Feature	Value
Interfaces	Data Storage	Built in 1TB data storage capacity (not removable or replaceable). External storage via USB storage device or 10 Gbe data output
	Communications	One 1 Gbe, RJ45 primary Ethernet comms port One 10 Gbe, RJ45 data streaming port[3] Service port interfaces: one HDMI, one 1 Gbe RJ45 Ethernet, two USB 3.1 Type C
Mechanical Hardware	Size including rear cable guards, excluding handles (h x d x w)	90 mm (2U) x 580 mm x 430 mm (19") - excluding connectors
	Weight	13 kg
Environmental	Operating Temperature[4]	+5°C to 40°C
	Humidity	Humidity 80% RH non-condensing
Energy Consumption	Voltage, Frequency	22-25 V DC or 90 V to 305 V AC, 47 to 63 Hz (using approved PSU)
	Power	165 W (Typical)
Certifications	Safety, EMC and RoHS	CE, NRTL

[1] Other fiber types considered.
[2] With a one way optical loss of up to 12.5 dB. Range is dependent upon quality of fiber, local environment, and the specific detection streams required.
[3] It is not possible to stream over 10Gbe at the same time as writing to a networked storage device using the same port.
[4] Please contact your local VIAVI representative if the expected operational temperature falls outside the specified range.

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