

SCN-84 S-line Scan 804

Basic characteristic

- ▲ **S-line Scan 804** is interrogator with 4 optical channels consisting of S-line Scan 800 module and S-line Switch 1x4 module.
- ▲ **S-line Scan 804** is extendable with S-line Splitter or Computer modules.
- ▲ **S-line Scan 804** is provided with Sentinel 2.0 measurement software.
- ▲ **S-line Scan 804's** depolarized light source greatly reduces unwanted polarization effects.
- ▲ **S-line Scan 804** can be also simply re-configured into S-line Scan 816 or S-line Scan 836 by replacing the 1x4 switch with 1x16 or 1x36 switch modules.



Performance properties

Number of channels		4
Scanning frequency ¹⁾		1 Hz
Wavelength range		80nm (1510-1590nm)
Operational Temperature range		-5°C to +50°C
Storage Temperature range		-10°C to +60°C
Dynamic range ²⁾		30dB
Power budget ³⁾		18dB
Accuracy	@ 25°C // @ FOTR ⁴⁾	TBT // ±13pm
Repeatability (Precision)	@ 25°C // @ FOTR ⁴⁾	6pm // 12pm
Resolution		1pm
Laser Class	IEC 60825-1	1

1) Slower data logging is available through down sampling.

2) Maximum attenuation that can be inserted in the optical line between the interrogator and the measured FBG, or series of FBG's on a same power level (see [Figure 1](#)).

3) Maximum attenuation that can be inserted between the FBG's with the highest and lowest power level in one channel (see [Figure 2](#)).

4) FOTR = Fully Operational Temperature Range (-5°C to +50°C).

All parameters tested with FBG's FWHM 200pm and 40% Reflectivity.

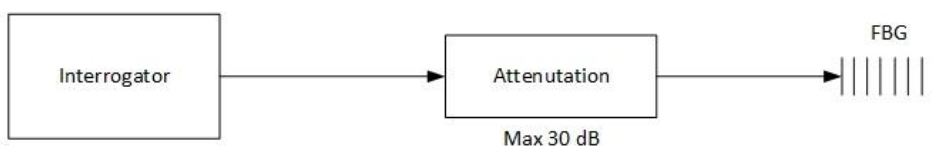


Figure 1: Max. allowed attenuation within optical line (bidirectional)

SCN-84 S-line Scan 804

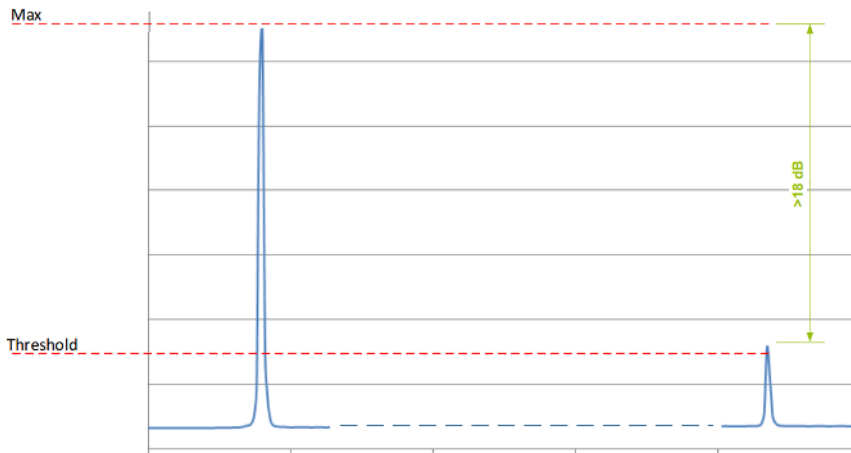


Figure 2: Power budget

Physical properties

Dimensions (without cable)	300x200x84mm
Weight (without cable)	4,27kg
Connector type	FC/APC
Power consumption	6W (9-18V) (universal adapter included)
Interface	USB

Packaging

Standard - Cardboard box with dimensions: 364x351x140mm (see [Figure 3](#))

Optional - Ruggedized transportation case with dimensions: 502x401x188mm (see [Figure 4](#))

Quality statement

All interrogators are 100% tested at SYLEX
Interrogator is manufactured according to ISO 9001:2008 and ISO 14001:2004

Accessories (included):

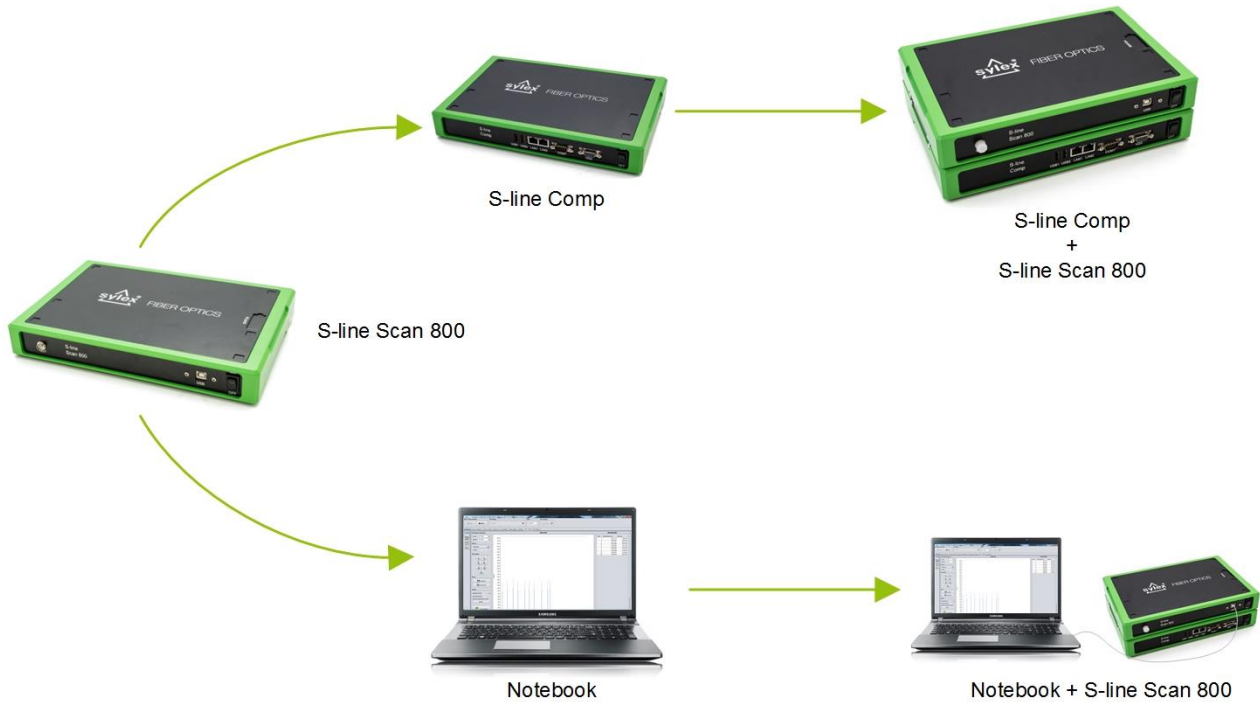
- ▲ Sentinel 2.0 – automated data acquisition and evaluation software
- ▲ Standard extension patchcord (SPA-02)
- ▲ Power adapter, 90-264V input range, 12V/2A output, with EU-UK-US compatible sockets

Recommended accessories within S-line family:

- ▲ S-line Switches – 1x16 (SWS-16), 1x36 (SWS-36)
- ▲ S-line Comp (SPC-02)
- ▲ S-line Splitters – 1x2 (SPL-02), 1x4 (SPL-04), 4x16 (SPL-16)
- ▲ S-line View 1.0 – web-based data management software for collection, analysis, validation and visualization of measured data
- ▲ Transportation case

SCN-84 S-line Scan 804

Communication options example



Packaging options



Figure 3: Cardboard box as standard packaging



Figure 4: Waterproof, crash proof and dust proof transportation case as optional packaging

* Specifications are subject to change without notice