VOA Array Rack System

(net-ready, high speed, SM/MM, broadband, latching)

(US patent 8,666,218 and other patents pending)

Features

- Very Low Loss
- Highly Repeatable
- Latching
- High Resolution
- Large Attenuation

Product Description

The VOA Array Rack System is highly versatile that is cable of meeting performance requirements for all application scenarios. The system intergrades power minoring taps to provide high precision attenuation and output laser power control. Many types of VOAs can be selected. MEMS VOAs offering low cost. Electro-optical NanoSpeed™ VOAs offer 300ns fast response and high-speed laser power stabilization function that eliminates fluctuations and surge. Fiber-Fiber™ Mini-motor VOAs offers ultra-broadband covering from 200 to 2500nm with all types of fibers, ultra-low insertion loss, and latching function that preserves the output level when electrical power is removed.

The system is a modular plug-in design that accommodates any number of channels in a single system with various corresponding rack heights. Each plug-in contains up to 8 channels using compact LC connectors and a 1U system can be configured to have 24 channels. The same system can further integrate amplifiers. The standard control interfaces is ethernet, other control methods may be available per request. A standard Web based GUI is included.

Performance Specifications

VOAS	Min	Typical	Max	Unit
Operation Wavelength	300		2500	nm
Insertion Loss		0.3	0.5[1]	dB
		1	1.5[2]	dB
Polarization Dependent Loss		0.15	0.5	dB
Wavelength Dependence Loss		0.1	0.2	dB
Attenuation Range	35	60	78[3]	dB
Attenuation Setting Repeatability			0.05	dB
Extinction Ratio (PM version only)	18	23	25	dB
Polarization Mode Dispersion (SM version only)		0.01	0.05	ps
Return Loss	45			dB
Response Time			100	ms
Optical Power handling		500	1000[4]	mW
Operating Temperature	-20		75	°C
Storage Temperature	-40		85	°C
Electrical Power Input	100		230	VAC

Notes:

[1] Only with Precision MEMS VOA with build-in position sensor
[2] Other VOAs with tap monitor
[3] 60dB and 78dB only available with MEMS and Precision MEMS VOAs
[4] 1W only available with Precision Piezo VOAs

Applications

- Power Control
- Power Regulation
- Channel Balance
- Instrumentation

RoHS Compliant

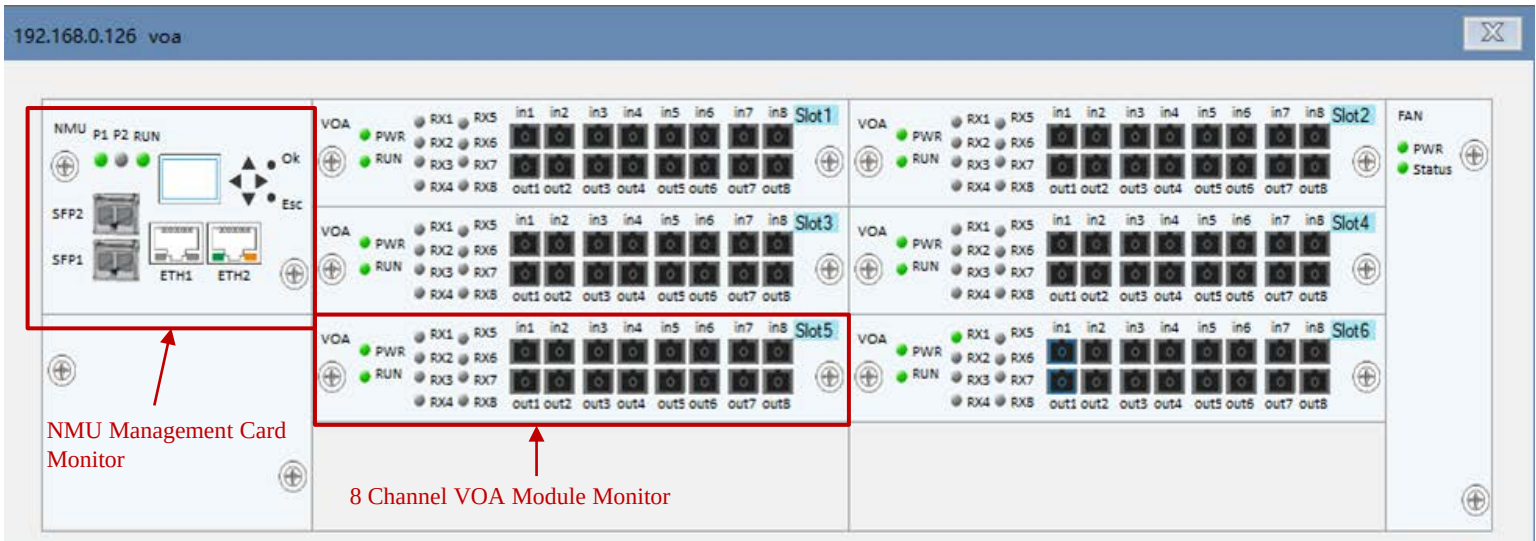
Revised on 9/23/21

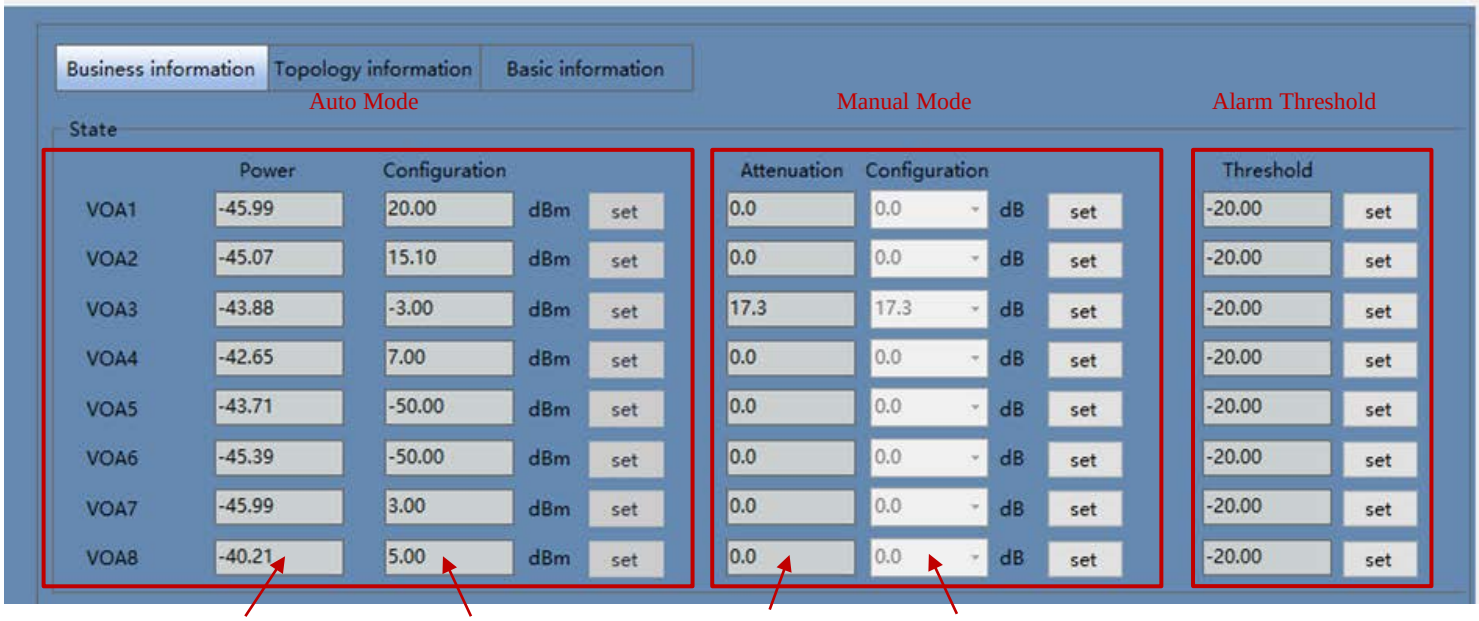
15 Presidential Way, Woburn MA 01801 Tel: (781) 935-1200 Fax: (781) 935-2040

www.agiltron.com

GUI Software

- The system contains tap monitor on each channel output providing attenuation and power control function.





15 Presidential Way, Woburn MA 01801 Tel: (781) 935-1200 Fax: (781) 935-2040

www.agiltron.com

Mechanical Footprint Dimensions (Unit:mm)

*Product dimensions may change without notice. This is sometimes required for non-standard specifications.

Ordering Information

- ❑ The system includes a rack-mount box of either 1U or 2U with multiple plug-in modules
- ❑ Pluggable module order information below, each module accommodate up to 8 channels

VOAS-	☐☐	☐	☐	☐	☐☐	☐	☐
	Channel	**Speed**	**Off State**	**Test Wavelength**	**Fiber type**	**Attenuation**	**Connector**
	1 = 01 2 = 02 3 = 03 4 = 04 5 = 05 6 = 06 7= 07 8= 08 MN =MN	MEMS 10ms =1 MEMS 2ms =3 NS 100ns =2	Transparent =1 Opaque = 2 Special =0	1260-1620= C 488 = 4 532 = 5 630 = 6 780 = 7 850 = 8 980 = 9 1060 = 1 1310 = 3 2000 = 2 Special = 0	Pick from below table	60 dB=2 65 dB =3 70 dB =4 80 dB =5 35dB =1	None=1 FC/PC=2 FC/APC=3 SC/PC=4 SC/APC=5 ST/PC=6 LC=7 Duplex LC=8 MTP = 9 Special=0

01	SMF-28	34	PM1550	67	OM1 (MMF 62.5/125um)
02	SMF-28e	35	PM1950	68	OM2 (MMF 50/125um)
03	Corning XB	36	PM1310	69	OM3 (MMF 50/125um)
04	SM450	37	PM400	70	OM4 (MMF 50/125um)
05	SM2000	38	PM480	71	GIF50 (GIF 50/125um)
06	SM600	39	PM630	72	GIF625 (GIF 62.5/125um)
07	Hi780	40	PM850	73	106/125um
08	SM800	41	PM980	74	FG105LCA
09	Hi980	42		75	FG50LGA
10	Hi1060	43		76	
11	Draka BBE	44		77	
12		45		78	

15 Presidential Way, Woburn MA 01801 Tel: (781) 935-1200 Fax: (781) 935-2040
www.agiltron.com