# COMMSCSPE<sup>®</sup>



## NG4access VAMs

#### Value-Added Modules

The NG4access Value-Added Modules (VAMs) product family features an array of Monitor, Splitter, CWDM and DWDM devices for use in CommScope's NG4access optical distribution frame (ODF). NG4access VAMs help enhance optical transport systems by providing flexible, easy to incorporate optical components into the network for increasing fiber capacity, troubleshooting, or distributing signals to multiple subscribers.

Technician-friendly, the NG4access VAMs feature staggered adapter ports for easy connector access and identification without pinching or moving adjacent connections – minimizing unwanted disturbances to live services. Craft-friendly module design promotes easy integration into CommScope's NG4access ODF: one NG4access VAM can be loaded per tray, with up to 24 total VAMs per chassis. VAMs are available in both SC and LC connector interfaces with angled and ultra polished configurations.

#### Module types

- Monitor
- Splitter
- CWDM
- DWDM

#### Applications

- Non-intrusive circuit monitoring
- Service turn-up verification and troubleshooting
- Signal splitting for PON networks
- CWDM/DWDM upgrades for metro networks
- CWDM/DWDM upgrades for wireless backhaul

#### Splitter VAMs

Splitter VAMs are used to split (or combine) optical signal power from one fiber to multiple fibers. This can be done using FBT couplers (for 1x2 splits) or PLC waveguides (1x4 and greater splits). NG4access VAM splitters can be used for signal distribution in PON networks or for redundant path route protection. NG4access splitter VAMs occupy up to three access trays in the universal chassis and snap easily into place.

#### Ordering Information



#### Example

**NG4-VSMLF132** (NG4access VAM Splitter, LC APC, Left Orientation, All front ports, One splitter, 1x32 split ratio) **Note:** Most splitter modules will occupy one tray in the NG4 universal chassis. 1x32 splitters will occupy three trays.



Single High NG4access VAM



Double High NG4access VAM



Triple High NG4access VAM

#### Singlemode Monitor VAMs

Singlemode Monitor VAMs are used for non-intrusive monitoring and testing of fiber optic network signals. VAM modules provide a wide range of tap ratios to accommodate specific application requirements.

The ability to easily monitor both directions at a single point greatly reduces the time necessary to analyze traffic patterns, locate failures, and monitor signal degradation. NG4access Monitor VAMs occupy one access tray in the universal chassis and easily snap into place. The NG4access universal chassis holds up to 12 left and 12 right orientation VAMs.

#### Ordering Information



#### Example

NG4-VMMLF4A (NG4access VAM Monitor, LC UPC, Left Orientation, All front ports, four circuits, 90/10 tap ratio)

GEN OKEN IS NEW	WARANTY VOID IF CON	
10 20 24 24 26 20 20 10 20 24 24 26 20 20		

**All Front Port Configuration** 

#### Multimode Monitor VAMs

Multimode Monitor VAMs are used for non-intrusive monitoring and testing of fiber optic network signals. VAM modules provide a wide range of tap ratios to accommodate specific application requirements.

The ability to easily monitor both directions at a single point greatly reduces the time necessary to analyze traffic patterns, locate failures, and monitor signal degradation. NG4access Monitor VAMs occupy one access tray in the universal chassis and easily snap into place. The NG4access universal chassis holds up to 12 left and 12 right orientation VAMs.

Multimode Monitor VAMs work at data rates of 10Gbps and lower.

### Ordering Information





**All Front Port Configuration** 

Description	Connector	Orientation	MID
4 circuits 70/30 Tap Ratio	LC Multimode	Left	NG4-VMKNLF4H010GM
4 circuits 70/30 Tap Ratio	LC Multimode	Right	NG4-VMKNRF4H010GM
4 circuits 60/40 Tap Ratio	LC Multimode	Left	NG4-VMKNLF4J010GM
4 circuits 60/40 Tap Ratio	LC Multimode	Right	NG4-VMKNRF4J010GM
4 circuits 50/50 Tap Ratio	LC Multimode	Left	NG4-VMKNLF4C010GM
4 circuits 50/50 Tap Ratio	LC Multimode	Right	NG4-VMKNRF4C010GM

#### CWDM VAMs

Coarse Wavelength Division Mulitiplexing (CWDM) VAMs are used to combine (or separate) two or more signals with different wavelengths. CWDM VAM modules provide a wide range of wavelength combinations (e.g. 4 or 8 channels) to accommodate a variety of network designs and requirements. Tap ports are available for signal turn-up and test access. NG4access CWDM VAMs occupy one access tray in the universal chassis and easily snap into place. The NG4access universal chassis holds up to 12 left and 12 right orientation VAMs.

#### Ordering Information

Connector Orientation   K LC UPC   M LC APC	O None   K 1%   L 2%
	0 None K 1% L 2%
	K 1% L 2%
M LC AFC	L 2%
7 SC UPC	
L SC APC	
Module Orientation (as viewed from rear of chassis)	
L Left	
R Right O No	one
Number of Circuits	ne
2 Tw	VO
2 Two	ig
O None	
Number of Channels A Pass 1471-1	531
4 4 CH B Pass 1551-1	611
8 8 CH Pass 1260-1	1620
A 4 CH + upgrade port C (except CW	DM channels
B 8 CH + upgrade port Starting Channel Number	
C4 CH + upgrade port + 1310 port(Lowest)Skip Channels Config	
D 8 CH + upgrade port + 1310 port	
E 4 CH + 1310 port 59 1591 nm	
F 8 CH + 1310 port 57 1571 mm   57 1571 nm 57 1571 nm	
W 10 CH + 1310 port   55 1551 nm	
53 1531 nm	
51 1511 nm	
19 1/91 pm	
47 1471 mm	
45 1451 pm	
43 1431 nm	

#### Example

NG4-VCML2F47002K (NG4access VAM CWDM, LC APC, Left Orientation, two circuits, 8-ch + 1310, 1471-1611, 2 test ports, 1% tap)

#### DWDM VAMs

Dense Wavelength Division Mulitiplexing (DWDM) VAMs are used to combine (or separate) two or more signals with different wavelengths. DWDM VAM modules provide a wide range of wavelength combinations (e.g. 4 or 8 channels) to accommodate a range of network designs and requirements. Standard ITU DWDM wavelength filters are available. NG4access DWDM VAMs occupy either one, two or three access trays in the universal chassis and easily snap into place.

#### Ordering Information



1529.55

1528.77

#### Example

NG4-VDML2MBA200A2K (NG4access VAM DWDM, LC APC, Left Orientation, two circuits, 8-ch + Upgrade, 100GHz/Channel Spacing, CH20-CH27, Upgrade Port, 2 test ports, 1% tap) Note: 20 CH DWDM modules occupy two trays and 40 CH DWDM modules occupy three trays in the NG4 universal chassis.



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