NG4access VAM

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

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Value-Added Modules

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

NG4 - V - X - X - X - X - X - X

Module Type

S	Splitter

Connector Orientation

K	LC UPC
M	LC APC
7	SC UPC
L	SC APC

Module Orientation

L	Left
R	Right

Port Configuration

F	All front
R	Front and Rear

Split Ratio

B	1x2	95/5
A	1x2	90/10
E	1x2	80/20
H	1x2	70/30
J	1x2	60/40
C	1x2	50/50
3	1x3	33/33/33
4	1x4	25/25/...
6	1x6	16.7/16.7/...
8	1x8	12.5/12.5/...
12	1x12	...
16	1x16	...
32	1x32	...
K	1x2	99/1
L	1x2	98/2

Number of Splitters

1	One	5	Five
2	Two	6	Six
3	Three	7	Seven
4	Four	8	Eight

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

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Monitor VAMs

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

$$NG4 - VM - X - X - X - X - X$$

Connector Type

K	LC UPC
M	LC APC
7	SC UPC
L	SC APC

Module Orientation
(as viewed from rear of chassis)

L	Left
R	Right

Port Configuration

F	All front
R	Front and Rear

Tap Ratio (Thru/Monitor Tap %)

B	95/5
A	90/10
E	80/20
H	70/30
J	60/40
C	50/50
M	60/20/20

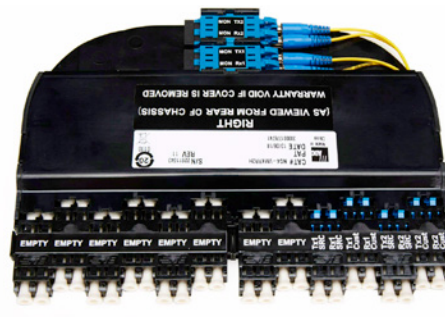**Number of Circuits**

1	One
2	Two
3	Three
4	Four

Example

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

All Front Port Configuration

Front and Rear Port Configuration

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NG4access VAMs
Value-Added Modules

CWDM VAMs

Coarse Wavelength Division Mulitplexing (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

NG4 - VC - X - X - X - X - XX - X - X - X - X

Connector Orientation

K	LC UPC
M	LC APC
7	SC UPC
L	SC APC

Module Orientation
(as viewed from rear of chassis)

L	Left
R	Right

Number of Circuits

1	One
2	Two

Number of Channels

4	4 CH
8	8 CH
A	4 CH + upgrade port
B	8 CH + upgrade port
C	4 CH + upgrade port + 1310 port
D	8 CH + upgrade port + 1310 port
E	4 CH + 1310 port
F	8 CH + 1310 port
W	10 CH + 1310 port

Starting Channel Number (Lowest)

61	1611 nm
59	1591 nm
57	1571 nm
55	1551 nm
53	1531 nm
51	1511 nm
49	1491 nm
47	1471 nm
45	1451 nm
43	1431 nm

Test Port Tap %

0	None
K	1%
L	2%
B	5%
A	10%

Test Port

0	None
1	One
2	Two

Upgrade Port Config

O	None
A	Pass 1471-1531
B	Pass 1551-1611
C	Pass 1260-1620 (except CWDM channels dropped)

Skip Channels Config

0	None

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 Multiplexing (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

NG4 - VD - X - X - X - X - X - X - XX - 0 - X - X - X

Connector Orientation

K	LC UPC
M	LC APC
7	SC UPC
L	SC APC

Module Orientation
(as viewed from rear of chassis)

L	Left
R	Right

Number of Splitters

1	One
2	Two

Mux or Demux

M	Mux
D	Demux

Number of Channels

4	4 CH
8	8 CH
A	4 CH + upgrade port
B	8 CH + upgrade port
C	4 CH + upgrade port + EXP port
D	8 CH + upgrade port + EXP port
G	12 CH
S	16 CH
Y	20 CH
Q	40 CH

Channel Spacing

A	100 GHz (e.g. 33, 34, 35,...)
B	200 GHz (e.g. 33, 34, 35,...)

Test Port Tap %

0	None
K	1%
L	2%
B	5%
A	10%

Test Port

1	One
2	Two

Upgrade/Exp Port Config

O	None
A	Pass DWDM λs
C	Upgrade Port Pass DWDM λs / EXP Port Pass 1260-1520 1570-1620

Skip Channels Config

0	None

Starting Channel Number (Lowest)

20	1561.42 nm
21	1560.61 nm
•	•
•	•
•	•
•	•
•	•
•	•
60	1529.55
61	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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