

## High-Capacity Microwave & Optical Transport Platform

# Pasolink VR series

Aviat Pasolink VR is a key component in Aviat’s transport network portfolio, extending the platforms capabilities beyond traditional microwave. Pasolink VR integrates our high-performance microwave with a carrier-class packet switch supporting Layer 2 & 3 services required for demanding high-capacity backhaul and fronthaul network applications.

The split-mount platform also supports legacy interfaces for operators who need to continue support older infrastructure. Coupled with Aviat’s advanced NMS tools, the platform delivers end-to-end network management and automation options that makes Pasolink VR the logical option for your next generation 5G network rollout.

### Feature-rich and Flexible Platform



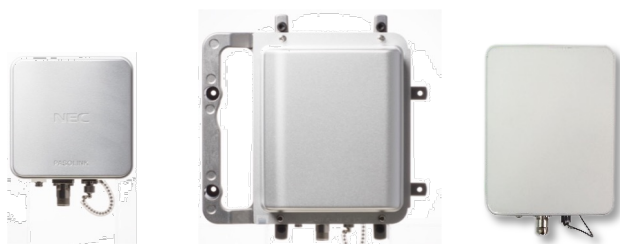
Pasolink VR 10



Pasolink VR 4



Pasolink VR 2



Pasolink ODU Series

#### Radio Features

- Full range of frequency (6 GHz – 38 GHz)
- QPSK – 4096QAM with Adaptive Modulation Radio (AMR)
- Various channel spacing (7 – 112 MHz)
- 1+0, 1+1, N+0, XPIC function
- Radio Traffic Aggregation (RTA), Multi Traffic Aggregation (MTA), Service Switch function
- Channel Aggregation (CA)
- 4 x 4 MIMO [VR 10]

#### Various Interfaces

- MODEM : 12 (VR 10) / 5 (VR 4) / 2 (VR 2)
- Ethernet : 10 / 1 GbE opt. and 1 GbE ele.
- TDM : E1 (native / PWE) and STM-1

#### Packet and TDM Features

- Ethernet Ring Protection Switching (ERPS)
- ETH OAM
- Hierarchical QoS
- SyncE / PTP T-TC, T-BC (G.8275.1)
- IP/MPLS [VR 4 / VR 10]
- E1 SNCP

#### Others

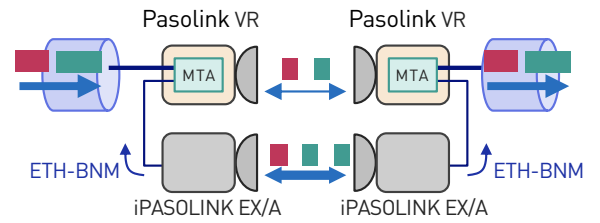
- Function Compatibility with conventional iPASOLINK series
- Fan-less [VR 2]
- Universal slot modules [VR4 / VR10]
- Secure Standard protocols

4096 QAM	10 ch Radio Aggregation	Carrier Class Packet Switch
L1 & L2 Multi Band	Channel Aggregation	5G Ready

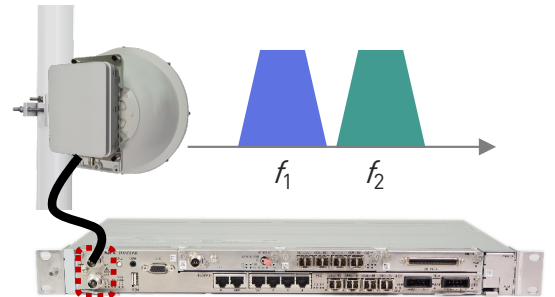
### Increase Capacity with Traffic Aggregation technique

**Pasolink VR** is designed for high-capacity and flexibility, offering a range of configuration options to address the growth requirements for 5G networks. A simple upgrade process allows operators to deploy a single radio, add a second later and more as required, all the way up to 12 channels, cost effectively adding capacity as needed. The aggregation options include adding radios from multiple bands including mixing microwave and E-Band and allows operators to choose between Layer-1 or Layer-2 based aggregation engines.

**Pasolink VR** supports Channel Aggregation (CA) which allows for two radio channels to be transmitted via a single ODU, doubling the capacity of link without the need for additional hardware. It can reduce the number of ODUs and IF cables compared to not using CA. Operators benefit from increased capacity from less hardware, increased capacity and a significant reduction in TCO. CA can be paired with MTA / RTA offering operators greater capacity and simplicity.



L1-based multiband Multi Traffic Aggregation (MTA)



Channel Aggregation (CA) Simplified 2+0 installation

\* A dedicated MC-AV or MODEM card and CA supported ODU are needed to use CA function.

## Specifications

Frequency band	6 / 7 / 8 / 10 / 11 / 13 / 15 / 18 / 23 / 26 / 28 / 32 / 38 GHz	
Channel spacing	7 / 14 / 28 / 40 / 56 / 80 / 112 MHz	
Modulation and AMR range	QPSK to 4096QAM	
Interfaces	Radio	VR 10 : Up to 12ch, VR 4 : 5ch, VR 2 : 2ch
	10GbE	VR 10 : Up to 2 SFP+, VR 4 : Up to 4 SFP+** (max=10Gbps) VR 10 : Up to 10 SFP+*, VR 4 : Up to 3 SFP+** (max=2.5Gbps) <span style="float:right">*: depends on mode **: depends on type of MC-AV</span>
	GbE	VR 10 : Up to 16 SFP, VR 4 : Up to 4 RJ-45 and 16 SFP, VR 2 : 4 RJ-45 and 2 SFP
	STM-1	VR 10 : Up to 14 STM-1, VR 4 : Up to 6 STM-1 <span style="float:right">Available for ETH/TDM Dual Model</span>
	E1	E1 - VR 10 : Up to 224, VR 4 : Up to 64, VR 2 : 16, PWE - VR 10 : Up to 128, VR 4 : Up to 64 <span style="float:right">Available for ETH/TDM Dual Model</span>
L2 Switch function	Switch Capacity	VR 10 : 112 Gbps, VR 4 : 122 Gbps, VR 2 : 16 Gbps [Non-Blocking]
	VLAN	IEEE 802.1Q, IEEE 802.1ad, MEF 9 Certified EPL, EVPL and ELAN services supported
	QoS	Ingress policer, Egress 4 / 8 class SP+DWRR Hierarchical shaping, WRED or WTD
	Protection	RSTP, MSTP, ERPS
Traffic Aggregation	Link Aggregation, RTA (Up to 5 ch* / 10 ch**), Service Switch function, MTA* <span style="float:right">*:VR 4, **:VR 10</span>	
Synchronization	SyncE, PTP T-TC / BC (G.8275.1), TDM (STM-1, E1, ACR), MODEM	
Management	SNMPv3, Web LCT, CLI (SSHv2)	
Dimensions	VR 10 : 430(W) x 129(H) x 230(D) mm / VR 4, VR 2 : 430(W) x 44(H) x 230(D) mm	
Power supply condition	-40.5 to -57 VDC	
Temperature range	-5°C to +50°C (No condensation)	
Order codes	VR 10 : MDP-1200MB-1BB      VR 4 : MDP-1200MB-1AA      VR 2 : MDP-1200MB-1A	