

# The World-First Fanless DWDM designed for Edge Network

## SpectralWave WX-E



### All Optical Edge For Efficiency

Extending the optical domain to the edge DC for higher efficiency and lower latency

### Innovation for Sustainability

Truly sustainable compact edge OADM suited for space/power constraint edge locations with multi-vendor compatibility

### Highly Scalable by Wavelength Multiplexing

Maximum transmission of 54 waves (21.6 Tbps) for efficient DC-to-DC communication, enabling high scalability by adding wavelength

**1U and half** rack size

### World 1<sup>st</sup> Fanless

All-sustainable design with DWDM using natural air cooling

### 50% Less Power

Compared to other companies (less than 80W)

### 12/54 Wavelength

(400G\*54) by wavelength multiplexing

## NEC SpectralWave® WX Portfolio

TIP Certified

### Whitebox Transponder WX-T Series

Phoenix



WX-T 400G TB2P1



Phoenix



WX-T 400G TB2E1



WX-T 800G/1.2T TB3



Operating System – NEC NOC



Phoenix MUST

OpenROADM Compliant

### Open Line System

WX-D Series



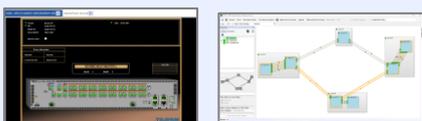
WX-S Series



WX-E Series



### Management WX-C Series



### Open Pluggable

400ZR/ZR+  
QSFP-DD



400G  
CFP2-DCO



800ZR/ZR+  
QSFP-DD



800ZR/ZR+  
CFP2-DCO



# NEC SpectralWave® WX Series

## The First TIP Phoenix Gold Certified Network OS on TIP Certified Whitebox



## Our Value Proposition

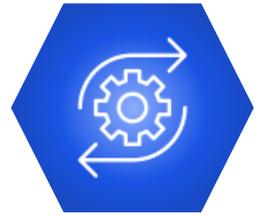


### Comprehensive Open Approach for Better Cost Efficiency & Agility

- Pick-What-You-Need Disaggregated Solutions
- Pay-As-You-Grow Modular Architecture
- Multi-Vendor Whitebox Transponder Mitigating Supply Chain Risks

### Optimized DC Operation by Integrated Server & Network Management

- World-First Linux Based NOS with Server-Like Operability
- TIP MUST Controller Support Programmability
- Plug and Play Zero-Touch Provisioning



### Supporting Your Journey toward Sustainability

- Enabling Green AI Datacenters by Disaggregated SLs for Power & Space Constrained Sites
- Hardware Longevity with Sustainable Module Upgrades
- Network & Power Optimization Service

## Use Cases

### Entertainment



Remote VR Sports 4K/8K Streaming

### Manufacture



Remote Robotics

### Broadcast



Remote Video Production

### Construction



Remote Machine Control



Datacenter Interconnect

Distributed AI Datacenter

GPU as a Service

IP over DWDM

MOFN / B2B

NEC Open Optical Transport Web Site



SCAN ME

NEC Open Pluggable Web Site



SCAN ME

NEC Global Network Service Department  
Learn more about:

WX series at <https://www.nec.com/en/global/solutions/open-opt/Pluggable> at <https://www.nec.com/en/global/prod/fod/>

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