

SpectralWave UN5000

Multi-Service Platform

■ Multi-Ring Cross-Connect

The UN5000, NEC SpectralWave Multi Service Node, offers efficient and flexible bandwidth delivery and management in optical networks. For HUB stations, it supports large capacity (10G 4F Ring x 6) in a shelf.

■ Various interfaces support

For Multi-Service aggregation, the UN5000 provides various interfaces such as 10Gigabit Ethernet, Gigabit Ethernet, Fast Ethernet STM-256, STM-64, STM-16, STM-4, STM-1, 45M, 34M and 2M. It can be configured as a multi-service SDH platform as well as RPR (Resilient Packet Ring) basis packet transport platform with built-in layer-2 switch(L2SW).

■ Packet / SDH Hybrid Transport

The UN5000 supports flexible bandwidth allocation of aggregate 10G interface both for RPR and SDH. Appropriate bandwidth can be assigned for packet service and TDM service in accordance with traffic demands.

■ RPR and Enhancements (Multi-ring)

As a RPR basis transport, the UN5000 offers bandwidth management (QoS) and proactive congestion avoidance. It supports not only single ring RPR but also multi-ring RPR that is suitable for regional expansion. In addition it can aggregate up to 4 x 10G RPR rings to achieve more than 10Gbit/s ring capacity in accordance with traffic demands such as video distribution services.

■ Upgradeable up to 40G/STM-256

For future traffic demand, the UN5000 is 40G ready platform. It's planned to support STM-256 (40G) interface.

■ U-Node BBM Migration

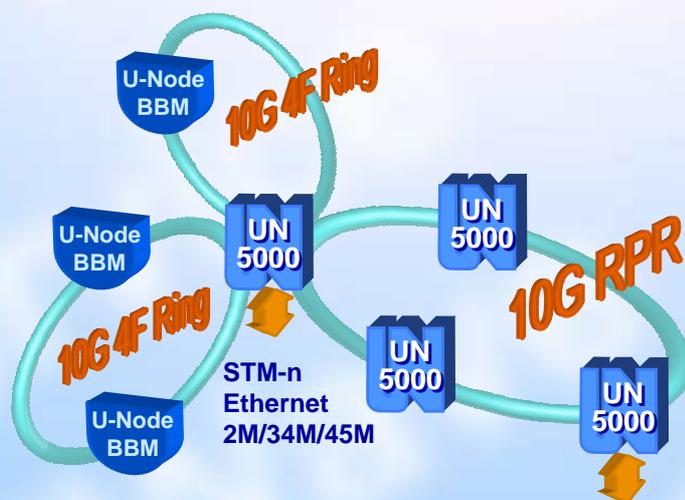
For expanding existing 10G 4F-Ring, the UN5000 can be inserted in the existing U-Node ring with minimum investment. It saves floor space as well as OPEX. In addition, the replaced BBM shelves can be reused in another station.

■ Approach to NGN

The UN5000 provides smooth migration path toward NGN. By Multi-ring 10G RPR, Stackable-ring 10G RPR, 40G ready platform and integration with R-OADM/OXC, it supports efficient, reliable and scalable packet transport.

■ Integrated Management

The INC-100MS management system manages the UN5000 together with the other SpectralWave products.



Technical Summary

■ Interfaces

STM-256 (Max. 6ports)	STM-64 (Max. 24 ports)
STM-16 (Max. 72ports)	STM-4 (Max. 96ports)
STM-1 (Max. 384ports)	10GBASE (Max. 12ports)
1000BASE (Max. 240ports)	FE (Max. 336ports)
45Mbit/s (Max. 192ports)	34Mbit/s (Max. 192ports)
2Mbit/s (Max. 2,016ports)	

■ Cross connect capacity

V4	2,048 x 2,048
V12	8,064 x 8,064

■ Housekeeping Interface

HKA input	16 port
HKC output	8 port

■ Environment

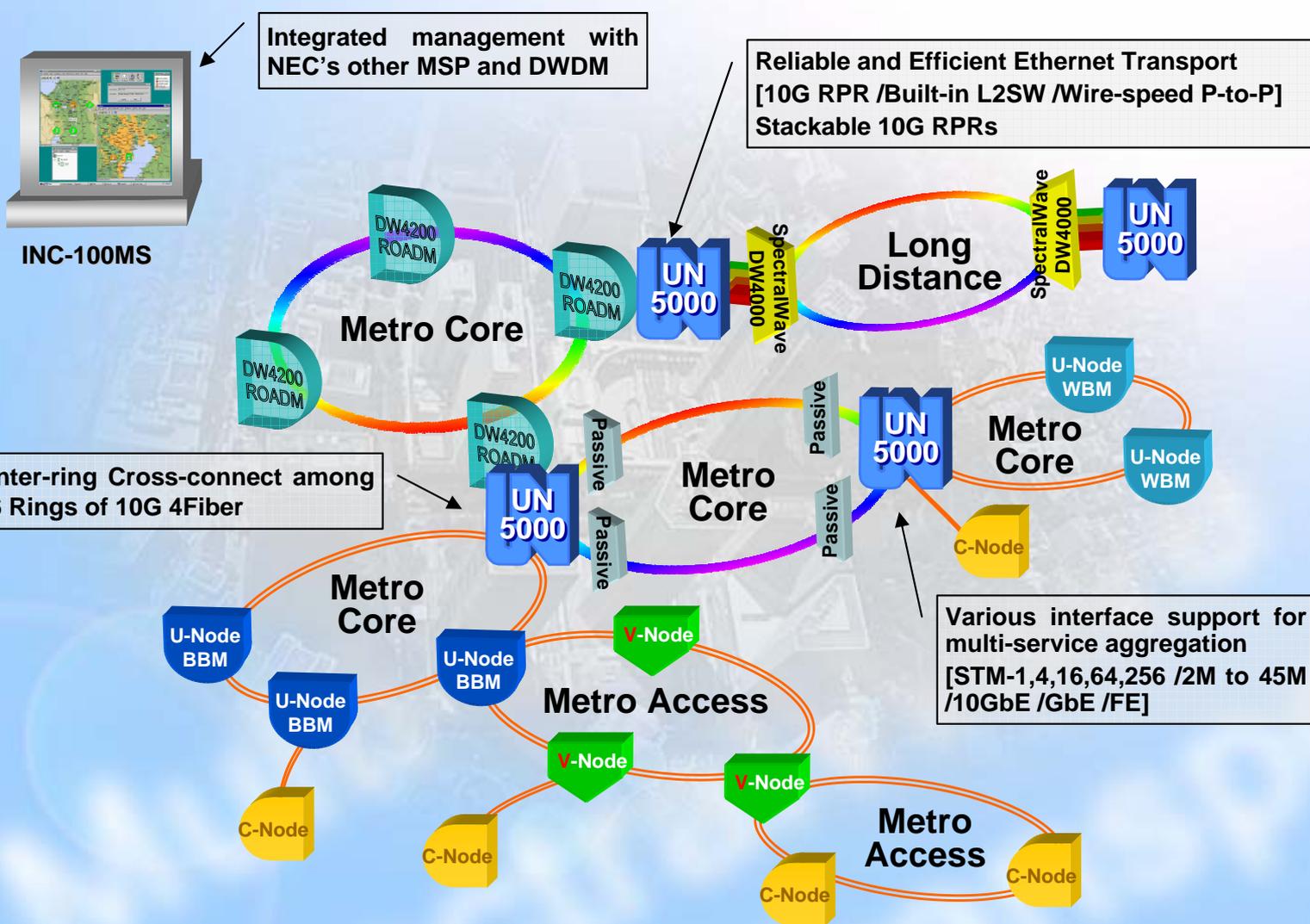
Operating Temperature Range	
Short term	0°C to 45°C
Long term	0°C to 40°C
Relative Humidity 5 to 85% without condensation	
Altitude -61 to 1,829 m	

■ Power Requirements

Voltage	-36 to -72V DC
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■ Physical Dimensions

Shelf	445 (H) x 441 (W) x 305mm (D)
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Safety Precautions

★ Before installing, connection or using this product, be sure to carefully read and observe the cautionary and prohibited matters provided in the instruction manual.

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