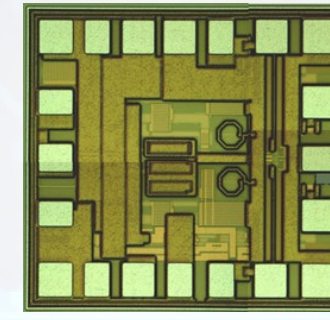
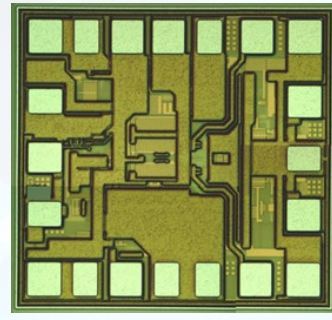


# Access and Client Interface Components

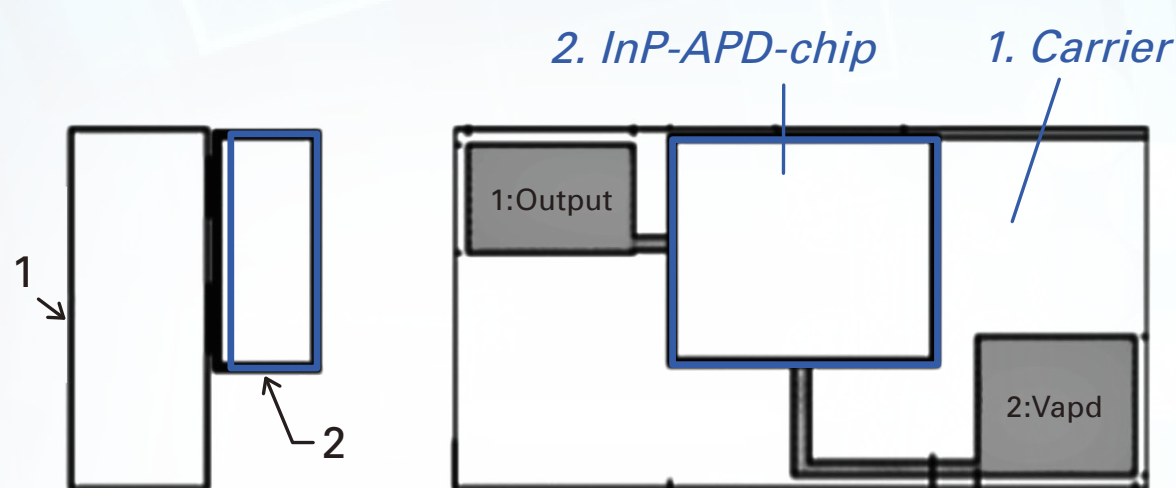


## 10G/1Gbps Burst mode Transimpedance Amplifier (TIA)

10G/1Gbps dual rates BM-TIA for the IEEE standard, 10G-EPON

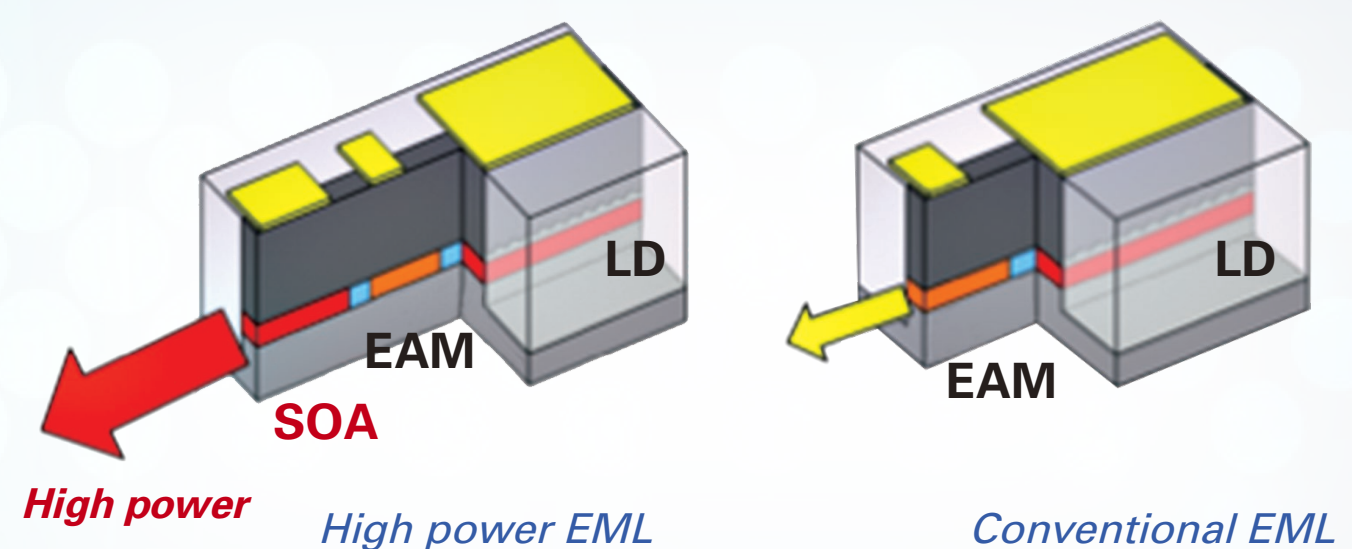
## 10G/2.5G/1Gbps Burst mode Transimpedance Amplifier (TIA)

10G/2.5G/1G multi-rate BM-TIA complied to both IEEE and ITU-T standard, XGS-PON, NG-PON2 and 10G-EPON



Configuration image of APD Chip on Carrier

- ✓ APD chip was mounted on carrier with face down
- ✓ No lens structure on backside of InP-sub.



## 25G-based APD (Avalanche Photodiode)

25Gbaud APD offers cost-effective solution with low power consumption and extension of transmission distance beyond 10km reach for MFH/MBH of 5G and Ethernet.

It can support transmission distances of nearly 30km without FEC and 40km with FEC.

NTT Electronics provides InP-APD chip-on-carrier (CoC) as a component for optical sub-assembly (OSA) for both NRZ and PAM4 application.



Low power consumption is realized by using APD as compared to PIN with optical amplifier.

## High power EML (SOA assisted extended reach EA-DFB Laser)

High power EML consist of an EA-DFB Laser monolithically integrated with SOA. The SOA assists output power and extends transmission reach with low power consumption. The 25Gbaud high power EML chip offers output power of +9 dBm (OMA) and it is useful for LAN-WDM and 5G applications. 10G high power EML chip for PON applications is also available. NTT Electronics provides high power EML chip on carrier (CoC) as component of optical sub-assembly (OSA) for both of NRZ and PAM4 operations.



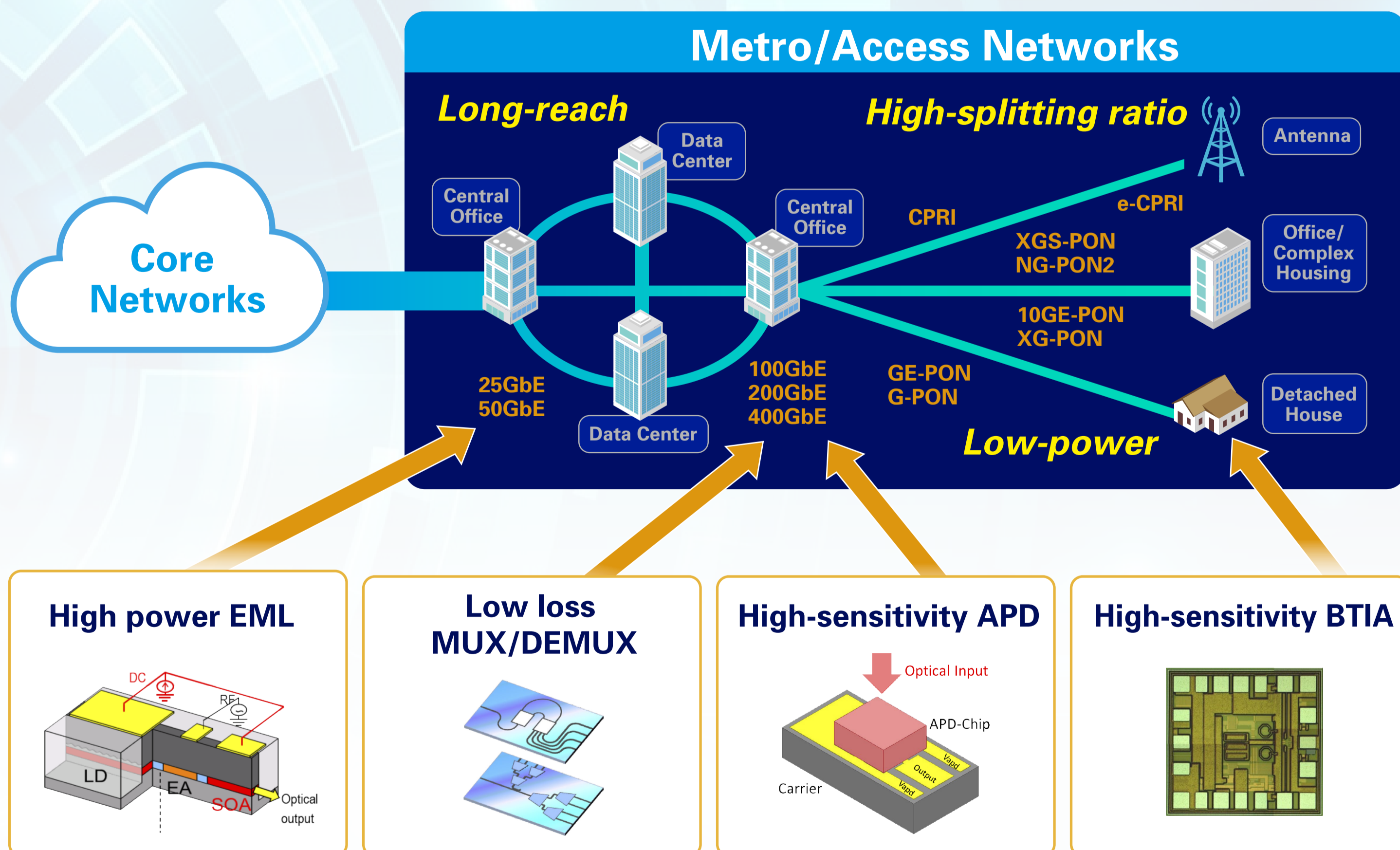
Low power consumption is achieved with SOA integrated EML (about 50% reduction at chip level compared with conventional EML).



# Access and Client Interface Components

NTT Electronics provides key components for access and client network: high-power EML, high-sensitivity APD, high sensitivity burst-mode TIA and low-loss MUX/DEMUX PLC filters.

These products enable unprecedentedly long-distance, high-branch (high-loss budget) access networks.



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