

# Access and Client Interface Components

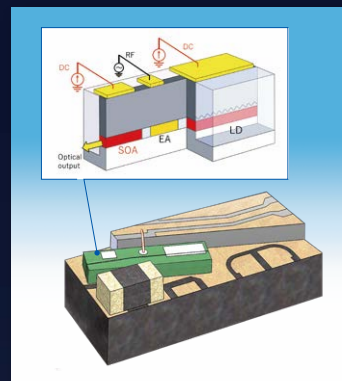
NTT Innovative Devices provides key devices with outstanding performance: 50G APD and monolithically integrated EA-DFB Laser with SOA (AXEL). Those components make differences in your business for LAN, PON and 5G wireless applications.

## 50GBaud AXEL (SOA assisted extended reach EA-DFB Laser)

"AXEL" stands for monolithically integrated EA-DFB Laser with SOA. 50GBaud AXEL features high output power (> 12 dBm chip out, CW) together with low power consumption and extends reach of transmission for 100G/λ Ethernet and PON applications. NTT Innovative Devices provides AXEL chip on carrier (CoC) as component of optical sub-assembly (OSA).



Low power consumption is realized by using AXEL as compared to EA-DFB Laser with optical amplifier.

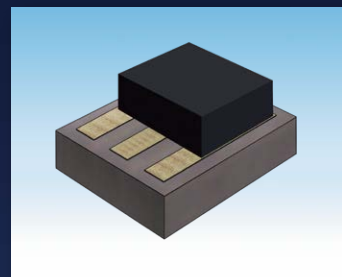


## 50GBaud APD (Avalanche Photodiode)

50GBaud APD offers cost-effective solution with low power consumption and extension of transmission distance beyond 10km reach for 100G/λ Ethernet and PON applications. NTT Innovative Devices provides InP-APD chip on carrier (CoC) as component of optical sub-assembly (OSA).



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

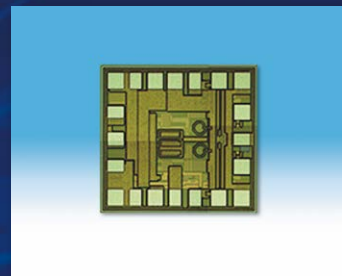


## 10G/2.5G/1Gbps Burst mode Transimpedance Amplifier (TIA)

10G/2.5G/1G multi-rate BM-TIA complied to both IEEE and ITU-T standard, XG(S)-PON, NG-PON2 and 10G-EPON.



Multi-rate BM-TIA can be applied to multiple application, which reduces the environmental impact compared to manufacturing separate chips for each application.



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- Please use our products in accordance with the instructions provided in the manual, user's guide or specifications attached.
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