

# Cost Competitive 400G PAM4 BERT

## Summary

NEON Photonics' 400G PAB BERT is very compact and shows high performance. NEON BERT supports 4x100G-PAM4 and 8x50G PAM4 for 400Gb/s optical interconnection of Data-center. The BERT can also provide 8x25G NRZ and 4x50G for 200Gb/s applications. The application areas are 5G, 5G+, Data-center and access network.



## Key Features

- Mobile network (5G, 5G+ & beyond)
- Datacenter (100G, 200G, 400G)
- Access networks (25G, 50G, 100G)
- Performance test of optical transceiver & OSA (25G, 50G, 100G, 200G, 400G)

## Specification

| Parameter                                   | Specification                      | Unit         |
|---|------------------------------------|--------------|
| Bit Rates per channel                       | PAM-4: 50 and 100 / NRZ: 25 and 50 | GBaud / Gb/s |
| TX differential amplitude output            | Typ. 800                           | mVpp         |
| PRBS patterns                               | 7/9/11/13/15/16/23/31              | -            |
| TX differential amplitude output adjustment | 80 ~ 120                           | %            |
| Error detector input range                  | 100 ~ 1000 (TBD)                   | mV diff.     |
| Reference clock output                      | Rate div 8/16/32/165               | -            |

\*Available for customized specification.

