

# 25 Gbit/s Optical Transmitter Modules for Optical Transceiver

Hisashi FUJITA\*, Masahiro HIRAYAMA, Shinya IIZAKA, Yasuyuki YAMAUCHI, Atsushi UGAI and Tsutomu ABE

For a 100 Gbit/s optical transceiver that satisfies the demand of high speed transmission, the authors have developed two types of 25 Gbit/s optical transmitter modules so that a user can select a module depending on transceiver architectonics. One of the two modules has an in-house driver IC for Electro-absorption (EA) modulator integrated in a laser chip and the other has no driver IC. These transmitter modules are transmitter optical sub-assembly (TOSA) type devices with flexible printed circuit (FPC) and LC receptacle. The evaluation results showed good modulation characteristics, lower power consumption and long-term reliability. This paper describes the outline of 25 Gbit/s optical transmitter module structure and evaluation results.

Keywords: Electro-absorption Modulator Integrated Laser Diode, TOSA, IEEE802.3ba, CFP module

## 1. Introduction

The amount of data transmission goes on increasing due to the high functionalization of mobile terminals, spread of social media and cloud computing. In addition, global online population is growing, especially in emerging countries. To meet the demand of data transmission, high-speed and large-capacity are required for network equipment like optical transmission equipment and optical switched/routers.

In IEEE<sup>1)</sup>, 10 Gbit/s Ethernet (10GbE) was standardized as a transmission specification in 2002. Eight years later, in 2010, 100 Gbit/s Ethernet (100GbE) was standardized as the next generation specification<sup>2)</sup>. Among the 100GbE specifications, 100GBASE-LR4 (transmission distance: 10 km) and 100GBASE-ER4 (transmission distance: 40 km) are the specifications for middle/long distance between routers/switches or between neighboring data centers when using single mode fiber. In ITU-T<sup>3)</sup> recommendation, G.959.1 (40-G01F and 40-G02F respectively)<sup>3)</sup> are determined as specifications corresponding to the IEEE's specifications.

The optical transmitter modules we have developed are one of the key components in the optical transceiver (CFP)<sup>4)(5)</sup> which converts an electrical signal to an optical signal and vice versa in the optical transmission equipment and optical switch/router. In the optical transceiver, the 100 Gbit/s electrical signal is divided into four 25 Gbit/s electrical signal lanes so that the data rate is suppressed per a lane, and four 25 Gbit/s lanes are allocated respectively to four optical transmitter modules whose wavelengths are four different ones, called LAN-WDM<sup>6)</sup>.

We have developed 25 Gbit/s optical transmitter modules employing Electro-Absorption (EA) modulator integrated DFB laser (hereinafter referred to as "EA-DFB laser"<sup>7)</sup>) for 100 Gbit/s optical transceiver.

In addition, when we commercialized these products, we developed two types of optical transmitter modules, including an in-house laser-diode driver IC<sup>8)</sup>

built-in type (hereinafter referred to as "driver IC built-in type") and a type without a laser-diode driver IC (hereinafter referred to as "non-IC built-in type"), so that a user can select a transmitter module depending on the transceiver architectonics. In this paper, we describe the configurations, characteristics and long-term reliability of 25 Gbit/s optical transmitter modules.

## 2. Specifications

Table 1 shows the specifications of the optical transmitter module.

Table 1. Optical transmitter module specifications (Transmission distance: 10 km)

		Min.	Max.	Unit
Bit rate		-	27.95	Gbit/s
Operating case temperature		-5	75	°C
Laser set temperature		-40	-48	°C
Laser operating current		-	100	mA
Optical output power		0	3	dBm
RF extinction ratio		4	-	dB
Optical wavelength	L0	1595.56 +/- 0.7		nm
	L1	1500.05 +/- 0.7		nm
	L2	1504.56 +/- 0.7		nm
	L3	1509.04 +/- 0.7		nm
Eye mask		ITU-T G.959.1		
TEC power consumption			0.75	W

Each optical transmitter module has one of wavelengths of L0, L1, L2 and L3. One set of 4 wavelengths is mounted on 100 Gbit/s optical transceiver module.

# 25gbit S 25 Gbit S Optical Transmitter

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