DAFTAR SINGKATAN

TULT	:	Telkom University Landmark Tower
FTE	:	Fakultas Teknik Elektro
FRI	:	Fakultas Rekayasa Industri
FIF	:	Fakultas Informatika
CCTV	:	*Closed Circuit Television*
FTTB	:	*Fiber-to-the-Building*
ODC	:	*Optical Distribution Cabinet*
ONT	:	*Optical Network Terminal*
OLT	:	*Optical Line Terminal*
OTB	:	*Optical Termination Box*
UTP	:	*Unshield Twisted Pair*
WLAN	:	*Wireless Local Area Network*
PuTI	:	Pusat Teknologi Informasi
AC	:	*Air Conditioner*
CO_2	:	Karbon Dioksida
AP	:	*Access Point*
TKO	:	Titik Konversi Optik
FTTX	:	*Fiber To The X*
Tx	:	*Transmitter*
Rx	:	*Receiver*
ASHRAE	:	*American Society of Heating, Refrigeration, and Air Conditioning Engineers*
TDM	:	*Time Division Multiplexing*
PON	:	*Passive Optical Network*
G-PON	:	*Gigabit-capable Passive Optical Network*
X-GPON	:	10 *Gigabyte Passive Optical Network*
NG-PON	:	*Next Generation Passive Optical Network*
WDM	:	*Wavelength Division Multiplexing*
XGS-PON	:	10 *Gigabit-capable Symmetric Passive Optical Network*
QoS	:	*Quality of Service*
FO	:	*Fiber Optic*
LCD	:	*Liquid Crystal Display*

LED	:	*Light Emitting Diode*
RTB	:	*Rise time Budget*
LPB	:	*Link power Budget*
SNR	:	*Signal to Noise Ratio*
BER	:	*Bit Error Rate*
SoC	:	*System-on-a-Chip*
NDIR	:	*Non-Dispersif Infrared*
VCC	:	*Voltage Control Center*
SDA	:	*Serial* Data A
SCL	:	*Serial Clock* A
UART	:	*Universal Asynchronous Receiver Transmitter*
Eε	:	*Error*
m	:	Kosentrasi *Analyzer*
x	:	Kosentrasi Sensor
P_{tx}	:	Daya keluaran sumber optik (dBm)
P_{rx}	:	Sensitivitas daya maksimum detektor (dBm)
SM	:	*Safety margin*
α_{tot}	:	Redaman total sistem (dB)
L	:	Panjang serat optik (Km)
α_c	:	Redaman Konektor (dB/buah)
α_s	:	Redaman sambungan (dB/sambungan)
α_{serat}	:	Redaman serat optik (dB/ Km)
N_s	:	Jumlah sambungan
t_{tx}	:	*Rise time transmitter* (ns)
t_{rx}	:	*Rise time receiver* (ns)
$t_{intermodal}$	:	Bernilai nol (untuk serat optik single mode)
$t_{intramodal}$	:	$\Delta\sigma \; x \; L \; x \; Dm$
ps	:	*picosecond*
Δσ	:	Lebar Spektral (nm)
L	:	Panjang serat optik (Km)
Dm	:	Dispersi Material (ps/nm.Km)
P_{in}	:	Daya yang diterima *receiver* (P_{rx} dalam bentuk watt)
R	:	*Responsitivity* (A/W)

M	:	*Avalanche Photodiode Gain*
q	:	*Electron Charge* (1,69 x 10^{-19} C)
$F(M)$	:	*Noise Figure*
Be	:	*Receiver Electrical Bandwidth* (Hz)
K_B	:	Konstanta *Boltzman's* (1,38 x 10^{-23} J/K)
T	:	Suhu Ruangan (300 K)
R_L	:	*Resistensi* (Ω)
$erfc$	:	*Error Function*
Q	:	Nilai *Q Factor*
π	:	Konstanta pi (3,14)