

LAMPIRAN

1. Spesifikasi perangkat jaringan fiber optic

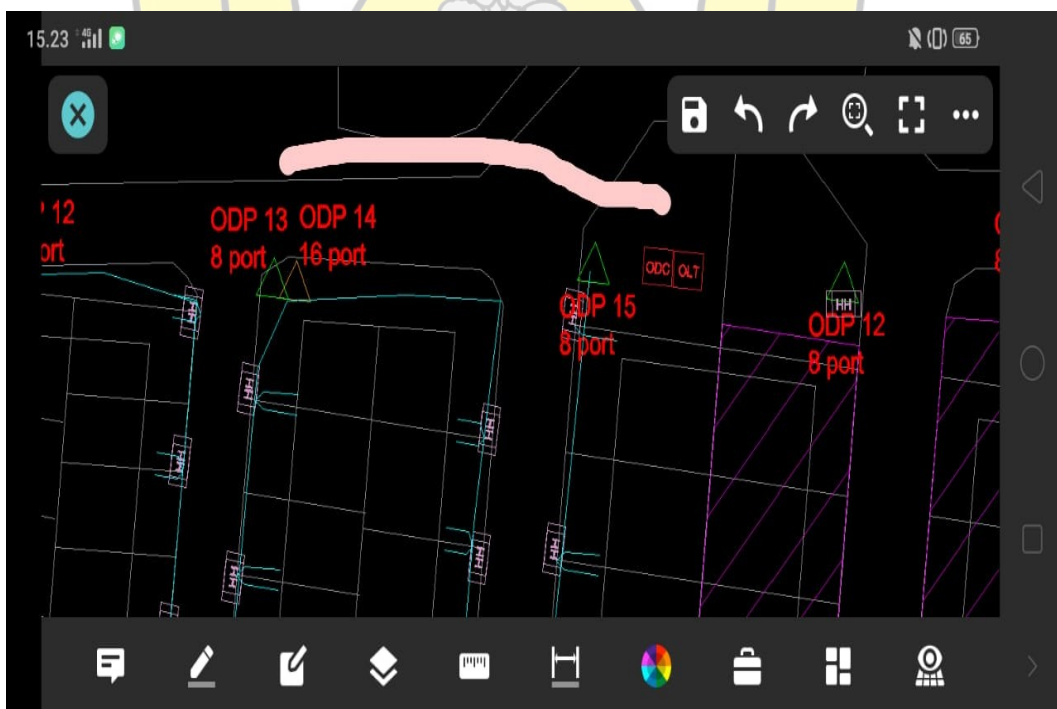
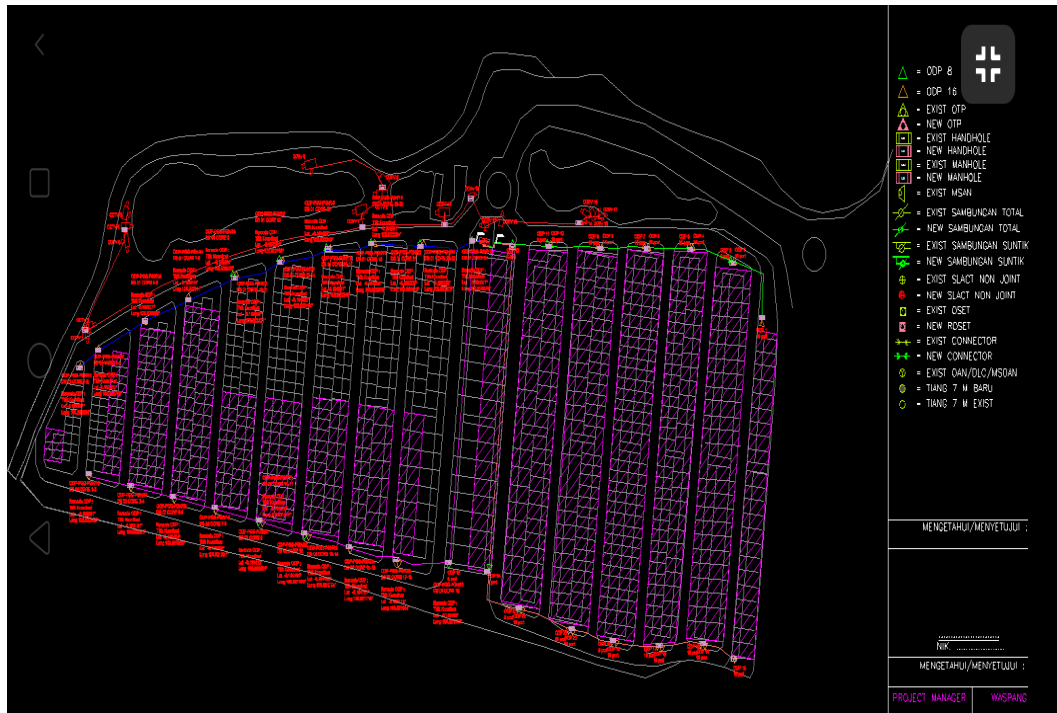
Telkom Akases Provider

Parameter	Jenis
OLT	Huawei Smart AXMA5600T
Jenis fiber optik	G.652.D (Fedeer): G.657.A (Distribusi)
ONU	Fiberhome HG243C

2. Spesifikasi OLT (optical line terminal) ITU-T

Parameter	Nilai	Satuan
Optical Transmit Power	3	dBm
Downlink Wavelength	1490	Nm
Uplink Wavelength	1310	Nm
Video Wavelength	1550	Nm
Spectrum Width	1	Nm
Downstream Rate	2,4	Gbps
Upstream Rate	1,2	Gbps
Optical Rise time	150	Ps
Optical Fall time	150	Ps

3. Gambar denah lokasi jaringan fiber optik Cluster Eropa Pengelola Cluster Eropa



4. Spesifikasi ONT fiberhome 192.168.1.1

Parameter	Spesifikasi	Satuan
Max Optical Transmit Power	0.5	dBm
Uplink Wavelength	1310	Nm
Downlink Wavelength	1490	Nm
Power Supply	220v 12v/1.5A	AC DC
Min/Max Work Temperature	-5-45	°C

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← → ↻ Not secure | 192.168.1.1/menu.html

Logout

Device Information

Wireless Status

Wireless Status

WIFI Clients List

Wan Status

Lan Status

Optical Info

VoIP Status

Status » Wireless Status » Wireless Status

On this page, you can query state of wireless.

Wireless State

Radio On/Off	radio on
Network Mode	802.11 b/g/n
Frequency (Channel)	channel 1
SSID1 Name	eropa Enable
SSID2 Name	ssid2 Disable
SSID3 Name	fh_8b2888_ssid3 Disable
SSID4 Name	fh_8b2888_ssid4 Disable

Wireless Packets Count

Received Packets Count	4291870
Received Bytes Count	911634859
Error Received Packets Count	0
Loss Received Packets Count	0
Sent Packets Count	12052125
Sent Bytes Count	4294967285
Error Sent Packets Count	0
Loss Sent Packets Count	0

Type here to search

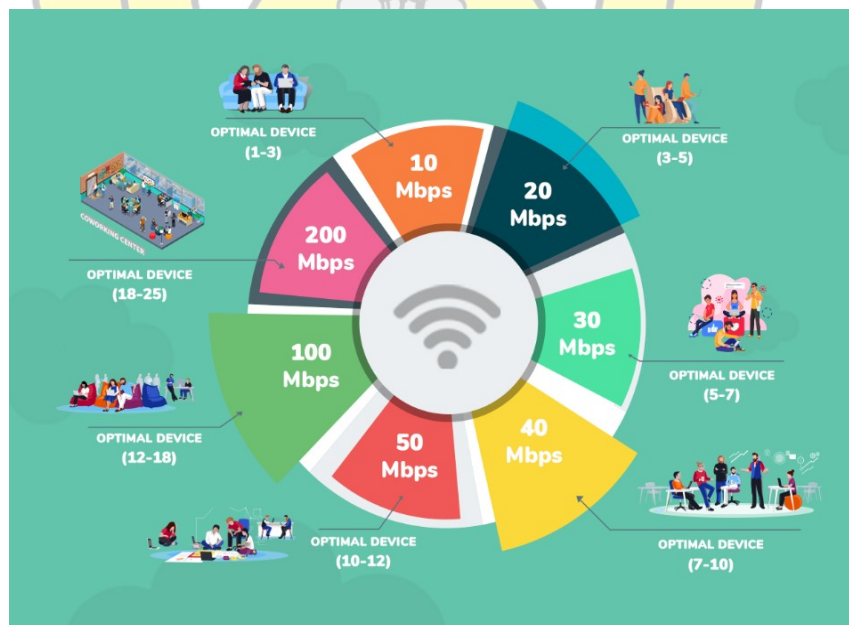
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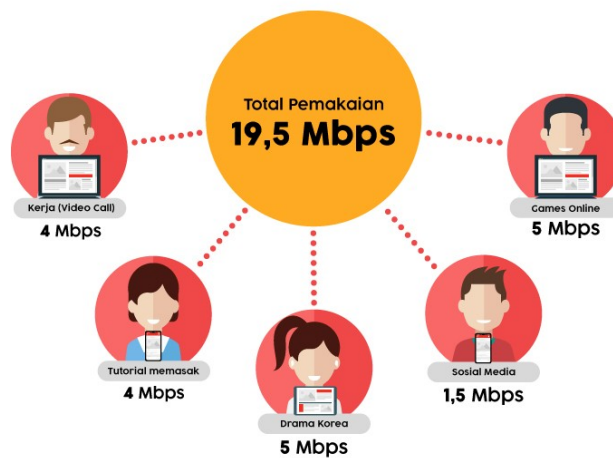
5. Jumlah hunian Cluster Eropa

No	Unit	Jumlah Huni	Keterangan
1	ABA	37	3 unit kosong
2	ABR 1	42	9 unit kosong
3	ABR 2	33	11 unit kosong
4	ABR 3	21	20 unit kosong
5	ABR 5	33	7 unit kosng
6	ABR 6	21	17 unit kosong
7	ABR 7	20	10 unit kosong
8	ABR 8	18	7 unit kosong
9	ABR 9	0	12 unit kosong
10	ABR 10	0	4 unit kosong
Jumlah		225	102 unit kosong/tidak huni

6. Penetapan jumlah ideal pengguna

Sumber Gambar : Indihome.co.id





7. Parameter Power link Budget ITU-T

No.	Link Parameter	Nilai	Satuan
1	Daya Output Sumber Optik (OLT/ONT) (P_t)	3,24	dBm
2	Sensitivitas Detektor (OLT/ONT) ($P_{sensitifity}$)	-29	dBm
3	Redaman Serat Optik G.652d Panjang Gelombang 1310 (α_{serat})	0.35	dB/Km
4	Redaman Serat Optik G.652d Panjang Gelombang 1490 (α_{serat})	0.24	dB/Km
5	Redaman Serat Optik G.657a Panjang Gelombang 1310 (α_{serat})	0.35	dB/Km
6	Redaman Serat Optik G.657a Panjang Gelombang 1490 (α_{serat})	0.24	dB/Km
7	Redaman Splice (a_s)	0.05	dB/splice
8	Redaman Konektor (a_c)	0.2	dB
9	Redaman passive splitter 1:4 (S_p)	7,25	dB
10	Redaman passive splitter 1:8 (S_p)	10,35	dB
11	Jumlah Sambungan OLT ke ODC (N_s)	3	Buah
12	Jumlah Konektor dari OLT ke ODC (N_c)	2	Buah
13	Jumlah Konektor dari ODC ke ONT (N_c)	2	Buah

8. Parameter Rise Time Budget ITU-T

No	Parameter	Nilai	Satuan
1	Panjang Gelombang (λ)	1310 / 1490	nm
2	Lebar Spektral ($\Delta\sigma$) OLT / ONU	1 / 1	nm
3	Dispersi Material (D _m) 1310	3.56	ps/nm.Km
4	Dispersi Material (D _m) 1490	13.64	ps/nm.Km
5	Rise time receiver (t _{rx}) OLT	150x10 ⁻³	ns
6	Rise time receiver (t _{rx}) ONU	200x10 ⁻³	ns
7	Kecepatan rambat cahaya (C)	3 x 10 ⁸	m/s
8	Bit Rate dengan panjang gelombang 1310	1.2	Gbps
9	Bit Rate dengan panjang gelombang 1490	2,4	Gbps
10	Rise Time Sumber Cahaya (t _{rx}) OLT	150x10 ⁻³	ns
11	Rise Time Sumber Cahaya (t _{rx}) ONU	200x10 ⁻³	ns
12	Jenis Serat Optic	Single Mode	
13	Indeks Bias inti (n ₁)	1.48	
14	Indeks Bias Selubung (n ₂)	1.46	
15	Jari-jari inti (a)	4.5	μm