



LAMPIRAN

Lampiran 1. Dokumentasi Pengambilan Data Pengukuran

Pengukuran pada kondisi tanpa interferensi, jarak *client* 1 meter dengan *access point*



Pengukuran pada kondisi interferensi *co-channel* dan *adjacent channel* secara bergantian, jarak *access point* yang menginterferensi sejauh 1 meter dari *access point* utama



Pengukuran pada kondisi interferensi *co-channel* dan *adjacent channel* secara bergantian, jarak *access point* yang menginterferensi sejauh 2 meter dari *access point* utama



Pengukuran pada kondisi interferensi *co-channel* dan *adjacent channel* secara bergantian, jarak *access point* yang menginterferensi sejauh 3 meter dari *access point* utama



Pengukuran pada kondisi interferensi *co-channel* dan *adjacent channel*



Pengukuran pada kondisi interferensi *co-channel* dan *adjacent channel*

Lampiran 2. Dokumentasi Aplikasi Wavemon, iPerf3, dan MATLAB

```

hanif@hanif-K46CM: ~
-Interface-
ra0 (Ralink STA, WPA/WPA2), ESSID: "Archer_C20", nick: "MT7610U_STA"
-Levels-
link quality: 100% (100/100)
=====
signal level: -46 dBm (0,03 uW)
=====
noise level: -72 dBm (0,06 nW)
=====
signal-to-noise ratio: +26 dB
=====
-Statistics-
RX: 7.031 (1,62 MiB), invalid: 0 nwid, 0 crypt, 0 frag, 0 misc
TX: 859 (84,91 KiB), mac retries: 0, missed beacons: 0
-Info-
mode: Managed, access point: 50:C7:BF:BE:55:F7
freq: 5,805 GHz, channel: 161, bitrate: 135 Mbit/s
power mgt: n/a
retry: n/a, rts/cts: off, frag: off
encryption: C531-7DB7-7BAB-F953..1B-F971 (128 bits), open [1] (1 other key)
-Network-
mac: 50:3E:AA:E4:91:E7, ip: 192.168.0.101/24
F1info F2lhist F3scan F4 F5 F6 F7prefs F8help F9about F10quit

```

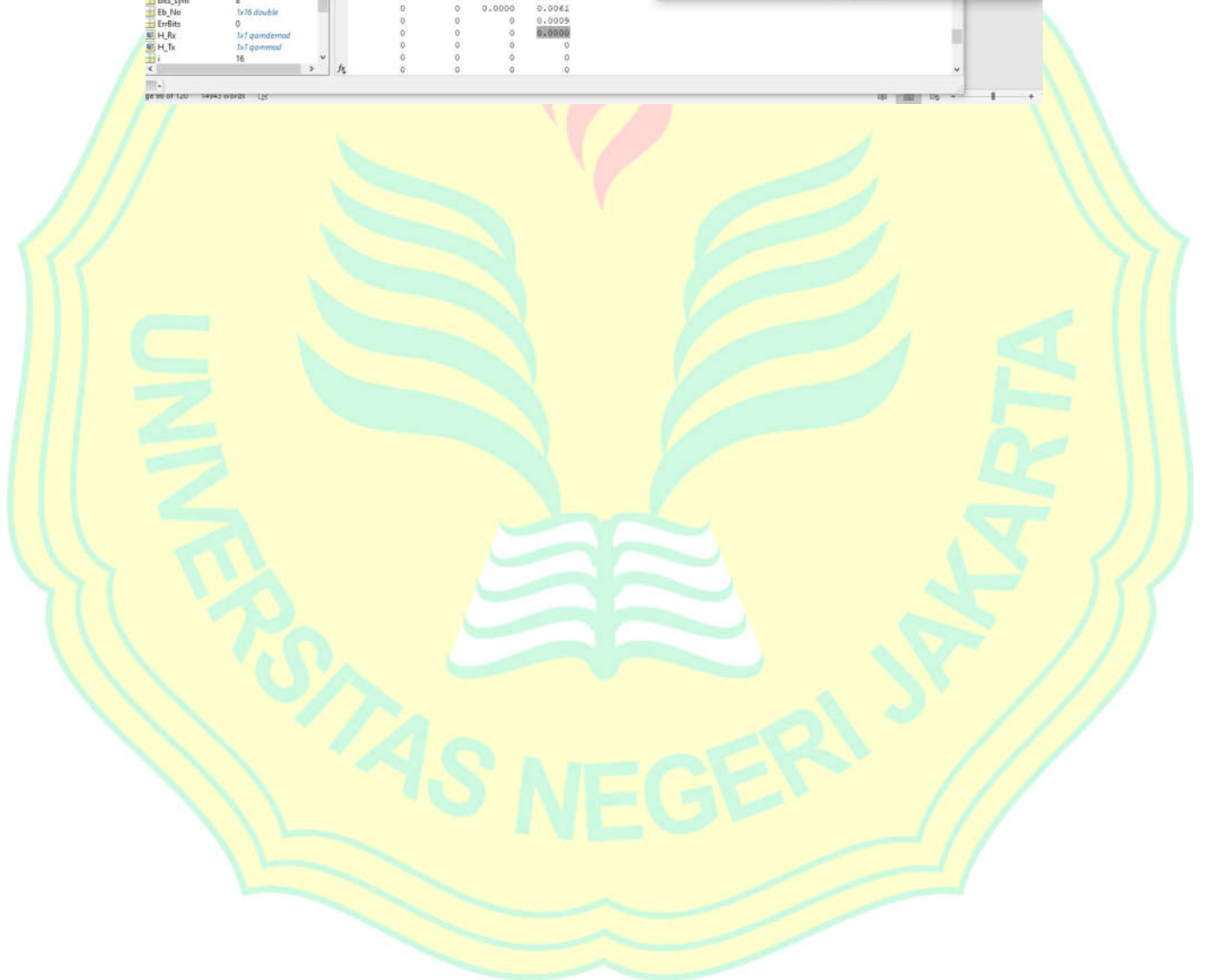
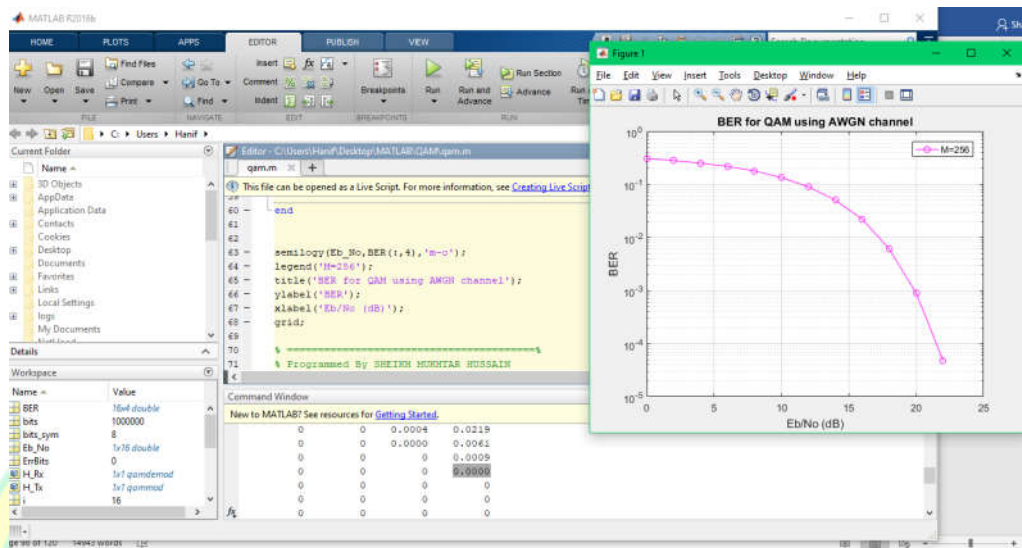
```

hanif@hanif-K46CM: ~
-Scan window-
Archer_C20      50:C7:BF:BE:55:F7 100%, -49 dBm, CH 161, 5805 MHz Managed, WPA
2Co-Channel    D8:0D:17:B4:20:70 100%, -49 dBm, CH 161, 5805 MHz Managed, WPA
2Adj-Channel   D8:0D:17:B4:25:CB 94%, -53 dBm, CH 149, 5745 MHz Managed, WPA
2GRAMESBARU66 B0:48:7A:BE:50:D0 10%, -86 dBm, ch 11, 2462 MHz Managed, WPA
/Napitupulu    DC:99:14:86:67:B8 5%, -88 dBm, ch 7, 2442 MHz Managed, WPA
2STY-2.4G      F8:4A:BF:76:5A:99 70%, -62 dBm, ch 6, 2437 MHz Managed, WPA
2STY-2.4G      C0:4A:00:79:56:08 60%, -66 dBm, ch 6, 2437 MHz Managed, WPA
2ERWIN         30:0C:23:CB:16:38 0%, -90 dBm, ch 1, 2412 MHz Managed, WPA
2
total: 8 Ch/Sg desc 5/2GHz: 3/5 top-3: ch#6 (2), ch#161 (2), ch#7 (1)
F1info F2lhist F3scan F4 F5 F6 F7prefs F8help F9about F10quit

```

```
hanif@hanif-K46CM: ~  
Preferences  
- Interface -  
Interface ra0  
Cisco-style MAC addresses Off  
Scan sort type Chan/Sig  
Scan sort in ascending order Off  
Statistics updates 500 ms  
Histogram update cycles 4  
Level meter smoothness 0 %  
Dynamic info updates 10 s  
  
- Level scales -  
Override scale autodetect Off  
Random signals Off  
Low threshold action Disabled  
High threshold action Disabled  
  
- Startup -  
Startup screen Info screen  
  
Save configuration  
F1 info F2 lhist F3 scan F4 F5 F6 F7 prefs F8 help F9 about F10 quit
```

```
Administrator: Command Prompt - iperf3 -s  
C:\iperf-3.1.3-win64>iperf3 -s  
-----  
Server listening on 5201  
-----
```



Lampiran 3. Source Code MATLAB Simulasi BER pada Modulasi QAM dengan channel AWGN

```

1 -----
2 File qam.m
3 -----
4 %% BER COMPARISON of different M-ary QAM
5
6 % -----%
7 % User Defined Functions used in this Files are
8 % s2p --> Serial to Parallel Conversion
9 % p2s --> Parallel to Serial Conversion
10 % -----%
11
12 clc;
13 clear all;
14 close all;
15
16 bits = 1.e6;
17 msq = round(rand(1,bits)); % Generating Random Bit Stream
18 M = [4 16 64 256]; % M-ary
19
20
21 for j=1:4
22
23 % ----- Tx -----%
24
25 %% 16-QAM Modulation
26
27 bits_sym = log2(M(j)); % Bits per Symbol for M-ary
28 sym_tx = s2p(msq, bits_sym); % Serial to Parallel Conversion for QAM
29
30 H_Tx = modem.qammod('M', M(j), 'PHASEOFFSET', 0, 'SYMBOLORDER', 'BINARY', ...
31 'INPUTTYPE', 'BIT'); % Generate
% Handle for Modulation
32 qam_tx = modulate(H_Tx, sym_tx); % Modulation
33
34 %----- CHANNEL -----%
35
36 Eb_No = 0:2:30;
37 SNR = Eb_No + 10*log10(log2(M(j))); % Finding
% SNR from Eb/No
38
39 for i=1:length(Eb_No)
40
41 qam_n = awgn(qam_tx, SNR(i), 'measured'); % Adding AWGN
42
43 % ----- Rx -----%
44
45 %% QAM De-Modulation
46
47 qam_rx = p2s(qam_n);
48 H_Rx = modem.qamdemod('M', M(j), 'PHASEOFFSET', 0, 'SYMBOLORDER', 'BINARY', ...
49 'OUTPUTTYPE', 'BIT'); % Generate Handle for Modulation
50 sym_rx = demodulate(H_Rx, qam_rx); % Modulating data to QAM
51
52 %% Symbols to Msq Conversion
53
54 msq_rx = p2s(sym_rx);
55 msq_rx = msq_rx(1,1:length(msq));
56
57 [ErrBits BER(i,j)] = symerr(msq_rx, msq); % Calculating BER by comparisson of Rx
% and Tx msq
58
59 %% Plot of BER vs Eb/No
60 end
61
62 end
63
64
65 semilogy(Eb_No, BER(:,1), 'r-*', Eb_No, BER(:,2), 'b-v', Eb_No, BER(:,3), 'g-s', Eb_No, BER(:,4), 'm
-o');

```



```

66 legend('M-4','M-16','M-64','M-256');
67 title('BER for QAM using AWGN channel');
68 ylabel('BER');
69 xlabel('Eb/No (dB)');
70 grid;
71
72 -----
73 File s2p.m
74 -----
75 %% Function Serial to Parallel I/P msg and No. of Parallel Channels
76
77 function p_data = s2p(s_data,N)
78     l = length(s_data);
79     mode = mod(l,N);
80     if mode ~= 0
81         z_add = zeros(1,N-mode);
82         data = [s_data z_add];
83     else
84         data = s_data;
85     end
86
87     M = length(data)/N;
88     p_data = reshape(data,N,M);
89 end
90
91 -----
92 File p2s.m
93 -----
94 %% Function Parallel to Serial
95
96 function s_data = p2s(data)
97     data1 = data(:);
98     s_data = data1.';
99 end

```



Lampiran 4. Tabel Perhitungan dan Analisis Data Penelitian

Tabel Data Analisis Interferensi Co-Channel dan Adjacent Channel terhadap kualitas jaringan Wi-Fi pada Frekuensi ISM 5.8GHz dengan standar 802.11ac															
Kondisi Tidak Ada Interferensi						Kondisi Interferensi Co-Channel									
Pengukuran			Analisis			Pengukuran			Analisis						
Jarak AP Interferensi	Channel AP Sistem	RSSI (dBm)	Noise (dBm)	SNR Pengukuran (dB)	Percobaan iPerf Ke	iPerf3 Up (Mbv/s)	iPerf3 Down (Mbv/s)	iPerf3 Retr	SNR Perhitungan (dB)	Eb/N0	α	Q(x)	BER 256-QAM		
x	161	-46	-72	26	1	89.5	89.3	0	26	18.67	1.326	0.0925	0.043359375		
Pengukuran															
1	161	-49	-67	18	1	54.5	54.4	0	21	13.67	1.134	0.12835	0.0601640625		
1		2	68	67.8	0	17.9	10.57	0.997						0.15925	0.0746484375
1		3	64.6	64.4	0										
2		1	49.2	49	3										
2		2	61.8	61.7	0										
2		3	52.6	52.4	0										
Pengukuran															
3	161	-44	-65	21	1	57.5	57.4	0	23	15.67	1.214	0.11235	0.0526640625		
3		2	52.1	52	0										
3		3	51.6	51.4	2										



Tabel Data Analisis Interferensi Co-Channel dan Adjacent Channel terhadap kualitas jaringan Wi-Fi pada Frekuensi ISM 5.8GHz dengan standar 802.11ac

Kondisi Interferensi Adjacent Channel													
Pengukuran						Analisis							
Jarak AP Adj-Ch	Channel AP Adj	RSSI (dBm)	Noise (dBm)	SNR Pengukuran (dB)	Percobaan iPerf Ke	iPerf3 Up (Mbps)	iPerf3 Down (Mbps)	iPerf3 Retir	SNR Perhitungan (dB)	Eb/N0	γ	Q(x)	BER 256-QAM
1	157	-42	-65	23	1	69	68.9	0	23	15.67	1.214	0.11235	0.0526640625
1		-42	-65	23	2	68.3	68.2	0					
1		-42	-65	23	3	63.2	63	0					
2	157	-46	-68	22	1	49	48.9	2	22	14.67	1.175	0.12	0.05625
2		-46	-68	22	2	63.4	63.3	0					
2		-46	-68	22	3	54.4	54.3	0					
3	157	-40	-65	25	1	6.65	6.63	152	25	17.67	1.29	0.0986	0.04621875
3		-40	-65	25	2	50.9	50.8	0					
3		-40	-65	25	3	64.1	64	0					
1	149	-52	-74	22	1	17.5	17.4	78	21.9	14.57	1.171	0.12080	0.056625
1		-52	-74	22	2	5.08	5.06	506					
1		-52	-74	22	3	2.95	2.94	495					
2	149	-44	-67	23	1	11.4	11.3	302	23	15.67	1.214	0.11235	0.0526640625
2		-44	-67	23	2	2.37	x	702					
2		-44	-67	23	3	x	x	x					
3	149	-47	-70	23	1	2.28	2.27	723	23	15.67	1.214	0.11235	0.0526640625
3		-47	-70	23	2	x	x	x					
3		-47	-70	23	3	x	x	x					



Tabel Data Analisis Interferensi Co-Channel dan Adjacent Channel terhadap kualitas jaringan Wi-Fi pada Frekuensi ISM 5.8GHz dengan standar 802.11ac

Kondisi Interferensi Co-Channel dan Adjacent Channel													
Pengukuran						Analisis							
Jarak AP Co dan Adj Ch	Channel AP Co dan Adj	RSSI (dBm)	Noise (dBm)	SNR Pengukuran (dB)	Percobaan iPerf Ke	iPerf3 Up (Mbps)	iPerf3 Down (Mbps)	iPerf3 Retir	SNR Perhitungan (dB)	Eb/N0	γ	Q(x)	BER 256-QAM
1	Co : 161, Adj : 157	-46	-63	17	1	4.49	4.48	465	17	9.67	0.954	0.17005	0.0797109375
1		2	8.99	8.96	128								
1		3	4.13	4.12	36								
2	Co : 161, Adj : 157	-44	-63	19	1	79.5	79.3	0	19	11.67	1.048	0.1473	0.069046875
2		2	5.24	5.21	304								
2		3	39.9	39.8	4								
3	Co : 161, Adj : 149	-47	-68	21	1	69.1	68.9	0	21	13.67	1.134	0.12835	0.0601640625
3		2	58.5	58.3	0								
3		3	61.5	61.3	0								
1	Co : 161, Adj : 149	-41	-59	18	1	17.6	17.5	245	18	10.67	1.002	0.15815	0.0741328125
1		2	6.98	6.96	255								
1		3	1.73	1.72	489								
2	Co : 161, Adj : 149	-45	-64	19	1	13.1	13.1	64	19	11.67	1.048	0.1473	0.069046875
2		2	5.02	5	294								
2		3	4.42	4.4	381								
3	Co : 161, Adj : 149	-42	-63	21	1	1.12	x	462	21	13.67	1.134	0.12835	0.0601640625
3		2	x	x	x								
3		3	x	x	x								



Lampiran 5. Tabel Q Function

E&CE 411, Spring 2009, Table of Q Function

Table 1: Values of $Q(x)$ for $0 \leq x \leq 9$

x	$Q(x)$	x	$Q(x)$	x	$Q(x)$	x	$Q(x)$
0.00	0.5	2.30	0.010724	4.55	2.6823×10^{-6}	6.80	5.231×10^{-12}
0.05	0.48006	2.35	0.0093867	4.60	2.1125×10^{-6}	6.85	3.6925×10^{-12}
0.10	0.46017	2.40	0.0081975	4.65	1.6597×10^{-6}	6.90	2.6001×10^{-12}
0.15	0.44038	2.45	0.0071428	4.70	1.3008×10^{-6}	6.95	1.8264×10^{-12}
0.20	0.42074	2.50	0.0062097	4.75	1.0171×10^{-6}	7.00	1.2798×10^{-12}
0.25	0.40129	2.55	0.0053861	4.80	7.9333×10^{-7}	7.05	8.9459×10^{-13}
0.30	0.38209	2.60	0.0046612	4.85	6.1731×10^{-7}	7.10	6.2378×10^{-13}
0.35	0.36317	2.65	0.0040246	4.90	4.7918×10^{-7}	7.15	4.3389×10^{-13}
0.40	0.34458	2.70	0.003467	4.95	3.7107×10^{-7}	7.20	3.0106×10^{-13}
0.45	0.32636	2.75	0.0029798	5.00	2.8665×10^{-7}	7.25	2.0839×10^{-13}
0.50	0.30854	2.80	0.0025551	5.05	2.2091×10^{-7}	7.30	1.4388×10^{-13}
0.55	0.29116	2.85	0.002186	5.10	1.6983×10^{-7}	7.35	9.9103×10^{-14}
0.60	0.27425	2.90	0.0018658	5.15	1.3024×10^{-7}	7.40	6.8092×10^{-14}
0.65	0.25785	2.95	0.0015889	5.20	9.9644×10^{-8}	7.45	4.667×10^{-14}
0.70	0.24196	3.00	0.0013499	5.25	7.605×10^{-8}	7.50	3.1909×10^{-14}
0.75	0.22663	3.05	0.0011442	5.30	5.7901×10^{-8}	7.55	2.1763×10^{-14}
0.80	0.21186	3.10	0.0009676	5.35	4.3977×10^{-8}	7.60	1.4807×10^{-14}
0.85	0.19766	3.15	0.00081635	5.40	3.332×10^{-8}	7.65	1.0049×10^{-14}
0.90	0.18406	3.20	0.00068714	5.45	2.5185×10^{-8}	7.70	6.8033×10^{-15}
0.95	0.17106	3.25	0.00057703	5.50	1.899×10^{-8}	7.75	4.5946×10^{-15}
1.00	0.15866	3.30	0.00048342	5.55	1.4283×10^{-8}	7.80	3.0954×10^{-15}
1.05	0.14686	3.35	0.00040406	5.60	1.0718×10^{-8}	7.85	2.0802×10^{-15}
1.10	0.13567	3.40	0.00033693	5.65	8.0224×10^{-9}	7.90	1.3945×10^{-15}
1.15	0.12507	3.45	0.00028029	5.70	5.9904×10^{-9}	7.95	9.3256×10^{-16}
1.20	0.11507	3.50	0.00023263	5.75	4.4622×10^{-9}	8.00	6.221×10^{-16}
1.25	0.10565	3.55	0.00019262	5.80	3.3157×10^{-9}	8.05	4.1397×10^{-16}
1.30	0.0968	3.60	0.00015911	5.85	2.4579×10^{-9}	8.10	2.748×10^{-16}
1.35	0.088508	3.65	0.00013112	5.90	1.8175×10^{-9}	8.15	1.8196×10^{-16}
1.40	0.080757	3.70	0.0001078	5.95	1.3407×10^{-9}	8.20	1.2019×10^{-16}
1.45	0.073529	3.75	8.8417×10^{-5}	6.00	9.8659×10^{-10}	8.25	7.9197×10^{-17}
1.50	0.066807	3.80	7.2348×10^{-5}	6.05	7.2423×10^{-10}	8.30	5.2056×10^{-17}
1.55	0.060571	3.85	5.9059×10^{-5}	6.10	5.3034×10^{-10}	8.35	3.4131×10^{-17}
1.60	0.054799	3.90	4.8096×10^{-5}	6.15	3.8741×10^{-10}	8.40	2.2324×10^{-17}
1.65	0.049471	3.95	3.9076×10^{-5}	6.20	2.8232×10^{-10}	8.45	1.4565×10^{-17}
1.70	0.044565	4.00	3.1671×10^{-5}	6.25	2.0523×10^{-10}	8.50	9.4795×10^{-18}
1.75	0.040059	4.05	2.5609×10^{-5}	6.30	1.4882×10^{-10}	8.55	6.1544×10^{-18}
1.80	0.03593	4.10	2.0658×10^{-5}	6.35	1.0766×10^{-10}	8.60	3.9858×10^{-18}
1.85	0.032157	4.15	1.6624×10^{-5}	6.40	7.7688×10^{-11}	8.65	2.575×10^{-18}
1.90	0.028717	4.20	1.3346×10^{-5}	6.45	5.5925×10^{-11}	8.70	1.6594×10^{-18}
1.95	0.025588	4.25	1.0689×10^{-5}	6.50	4.016×10^{-11}	8.75	1.0668×10^{-18}
2.00	0.02275	4.30	8.5399×10^{-6}	6.55	2.8769×10^{-11}	8.80	6.8408×10^{-19}
2.05	0.020182	4.35	6.8069×10^{-6}	6.60	2.0558×10^{-11}	8.85	4.376×10^{-19}
2.10	0.017864	4.40	5.4125×10^{-6}	6.65	1.4655×10^{-11}	8.90	2.7923×10^{-19}
2.15	0.015778	4.45	4.2935×10^{-6}	6.70	1.0421×10^{-11}	8.95	1.7774×10^{-19}
2.20	0.013903	4.50	3.3977×10^{-6}	6.75	7.3923×10^{-12}	9.00	1.1286×10^{-19}
2.25	0.012224						

Lampiran 6. Datasheet



AC750 Wireless Dual Band Router

Upgrade to AC Wi-Fi for Fast Connections



Archer C20



300Mbps + 433Mbps
Dual Band Wi-Fi



Easy Setup

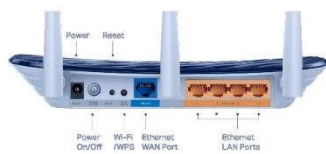


Superior Coverage

Specifications

Hardware

- Ethernet Ports: 4*10/100Mbps LAN Ports, 1*10/100Mbps WAN Port
- Buttons: Reset Button, Power On/Off Button, Wi-Fi/WPS Button
- Antennas: 3 fixed Omni Directional Antennas
- External Power Supply: 9VDC/0.6A(CE), 9VDC/0.85A(FCC)
- Dimensions (W x D x H): 9.1 x 5.7 x 1.4 in. (230 x 144 x 35mm)



Power On/Off Wi-Fi /WPS Ethernet WAN Port Ethernet LAN Ports

Wireless

- Wireless Standards: IEEE 802.11ac/n/a 5GHz, IEEE 802.11b/g/n 2.4GHz
- Frequency: 2.4GHz and 5GHz
- Signal Rate:
 - 5GHz: Up to 433Mbps
 - 2.4GHz: Up to 300Mbps
- Reception Sensitivity:
 - 5GHz:
 - 11a 54M: -76dBm; 11ac VHT20 MCS9: -70dBm
 - 11ac VHT40 MCS9: -66.5dBm; 11ac VHT80 MCS9: -61.5dBm
 - 2.4GHz:
 - 11g 54M: -76dBm; 11n HT20 MCS7: -74dBm
 - 11n HT40 MCS7: -71dBm
- Wireless Function: Enable/Disable Wireless Radio, WDS Bridge, WMM, Wireless Statistics
- Wireless Security: 64/128-bit WEP, WPA / WPA2, WPA-PSK / WPA2-PSK encryption

Specifications

Software

WAN Type: Dynamic IP, Static IP, PPPoE, PPTP(Dual Access), L2TP(Dual Access), Bigpond

DHCP: Server, DHCP Client List, Address Reservation

Quality of Service: WMM, Bandwidth Control

Port Forwarding: Virtual Server, Port Triggering, UPnP, DMZ

Dynamic DNS: DynDns, NO-IP

Access Control: Parental Control, Local Management Control, Host list, Access Schedule, Rule Management

Firewall Security: DoS, SPI Firewall, IP Address Filter/MAC Address Filter/Domain Filter, IP and MAC Address Binding

Protocols: IPv4, IPv6

Management: Access Control, Local Management, Remote Management

Guest Network: 2.4GHz guest network, 5GHz guest network

Others

- **Certification**

CE, FCC, RoHS, Wi-Fi

- **System Requirements**

Microsoft Windows 10/8.1/8/7/Vista/XP/2000/NT/98SE, MAC OS, NetWare, UNIX or Linux

Internet Explorer 11, Firefox 12.0, Chrome 20.0, Safari 4.0, or other Java-enabled browser

Cable or DSL Modem

Subscription with an Internet Service Provider (for internet access)

- **Environment**

Operating Temperature: 0°C~40°C (32°F~104°F)

Storage Temperature: -40°C~70°C (-40°F~158°F)

Operating Humidity: 10%~90% non-condensing

Storage Humidity: 5%~90% non-condensing

- **Package Contents**

Wireless Router Archer C20

Power Adapter

RJ-45 Ethernet Cable

Quick Installation Guide



For more information, please visit

<http://www.tp-link.com/products/details/Archer-C20.html>

or scan the QR code left.

Specifications are subject to change without notice. TP-Link is a registered trademark of TP-Link Technologies Co., Ltd. Other brands and product names are trademarks or registered trademarks of their respective holders. No part of this specification may be reproduced in any form or by any means or used to make any derivative work, in translation, in reproduction, or adaptation without prior permission from TP-Link Technologies Co., Ltd. Maximum wireless signal rate is the physical rate derived from IEEE Standard 802.11 specifications. Actual wireless data throughput varies as a result of network conditions, other conditions, and the wireless environment, including building materials, obstacles, volume and density of traffic, and client location.

www.tp-link.com

TP-Link AC750 Wireless Dual Band Router Archer C20

UNIVERSITAS NEGERI JAKARTA

TP-LINK®

AC600 Wireless Dual Band USB Adapter Archer T2U

⊙ Features:

- Selectable Dual Band connections for lag-free HD video streaming and gaming
- AC600 (433+150) Mbps wireless speed with 802.11ac
- A tiny way to get speedy next generation Wi-Fi connections
- WPA/WPA2-PSK encryptions provide your network with active defense against security threats
- Bundled utility enables easy management
- Compatible with IEEE 802.11a/b/g/n/ac
- Supports Windows 8/7/XP



⊙ Description:

TP-LINK's Archer T2U is an AC600 Wireless Dual Band USB Adapter comes with the next generation Wi-Fi standard – 802.11ac, 3 times speeds of wireless N speeds, providing selectable 5 GHz and 2.4 GHz bands for the latest standard and backward compatibility to existing Wi-Fi network. With 433Mbps wireless speeds over the crystal clear 5GHz band or 150Mbps over the 2.4GHz band, the Archer T2U is the superior choice for seamless HD streaming, online gaming and other bandwidth-intensive tasks.

⊙ Specifications:

HARDWARE FEATURES	
Interface	USB 2.0
Dimensions (W X D X H)	1.6x0.7x0.3 in. (41x19.5x8.7mm)
Antenna Type	Omni Directional
Wireless Standards	IEEE 802.11a, IEEE 802.11ac, IEEE 802.11b, IEEE 802.11g, IEEE 802.11n

www.tp-link.com

AC600 Wireless Dual Band USB Adapter

Archer T2U

Frequency	5GHz 2.4GHz	
Signal Rate	5GHz 11ac: Up to 433Mbps(dynamic) 11a: Up to 54Mbps(dynamic) 2.4GHz 11n: Up to 150Mbps(dynamic) 11g: Up to 54Mbps(dynamic) 11b: Up to 11Mbps(dynamic)	
EIRP	<20dBm (EIRP)	
Reception Sensitivity	5GHz: 11a 6Mbps: -94dBm 11a 54Mbps: -78dBm 11n HT20 MCS0: -94dBm 11n HT20 MCS7: -77dBm 11n HT40 MCS0: -92dBm 11n HT40 MCS7: -74dBm 11ac VHT80 MCS0: -89dBm 11ac VHT80 MCS9: -64dBm	2.4GHz: 11b 1Mbps: -99dBm 11b 11Mbps: -91dBm 11g 6Mbps: -94dBm 11g 54Mbps: -77dBm 11n HT20 MCS0: -95dBm 11n HT20 MCS7: -76dBm 11n HT40 MCS0: -92dBm 11n HT40 MCS7: -73dBm
Wireless Modes	Ad-Hoc / Infrastructure mode	
Wireless Security	Support 64/128 bit WEP, WPA-PSK/WPA2-PSK,802.1x	
Modulation Technology	DBPSK, DQPSK, CCK, OFDM, 16-QAM, 64-QAM, 256-QAM	
OTHERS		
Certification	CE, FCC, RoHS	
Package Contents	Wireless Adapter Archer T2U Resource CD Quick Installation Guide	
System Requirements	Windows 8/7/XP 32/64bits	
Environment	Operating Temperature: 0°C~40°C (32°F~104°F) Storage Temperature: -40°C~70°C (-40°F~158°F) Operating Humidity: 10%~90% non-condensing Storage Humidity: 5%~90% non-condensing	

Diagram:



Package:

- AC600 Wireless Dual Band USB Adapter Archer T2U
- Quick Installation Guide
- Resource CD

Related Products:

- AC1200 High Gain Wireless Dual Band USB Adapter Archer T4UH
- AC1200 Wireless Dual Band USB Adapter Archer T4U
- AC600 High Gain Wireless Dual Band USB Adapter Archer T2UH