Declaración de Información Comercial y Técnica - Chile

Información Comercial	
Fecha	2026/07/22
Nombre comercial del equipo	PRO B850-P WIFI
Fabricante	Micro-Star INT'L CO., LTD.
Importador o representante en Chile	Samual Rojas
Domicilio (en Chile) del fabricante	Nevado de Chillan 19413, Santiago
Correo electrónico de contacto	Samuelrojas@msi.com
Sitio web	https://latam.msi.com/

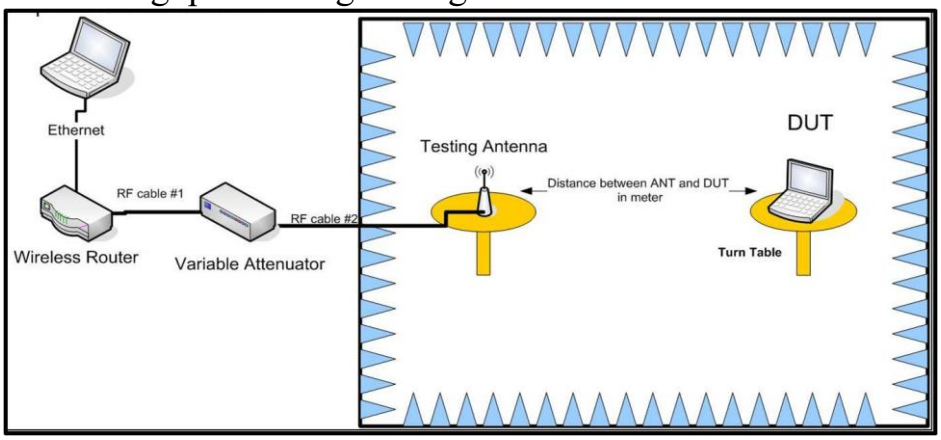
Características técnicas	
Tipo de equipo	Placa Madre
Marca	MSI
Modelo	PRO B850-P WIFI
Tecnología / Modulación	Bluetooth/Wi-Fi
Bandas de frecuencias	BT/BLE: 2402-2483.5MHz; WLAN 2.4G: 2402-2483.5MHz; WLAN 5G: 5.2G 5150-5350MHz 5.6G 5470-5725MHz 5.8G 5725-5895MHz WLAN 6G: 5925-7125MHz
Ganancia de antena (dBi)	BT/WLAN 2.4G: < 3.6 dBi WLAN 5G: 5.2GHz 5150-5250MHz < 3.1 dBi 5.3GHz 5250-5350MHz < 3.1 dBi 5.6GHz 5470-5725MHz < 4.8 dBi 5.8GHz 5725-5850MHz < 4.8 dBi 5.9GHz 5850-5895MHz < 5.09 dBi WLAN 6G: 6.2GHz 5925-6425MHz < 5.14 dBi 6.5GHz 6425-6525MHz < 5.09 dBi 6.7GHz 6525-6875MHz < 5.16 dBi 7.0 GHz 6875-7125MHz < 5.12 dBi
Max EIRP	BT/WLAN 2.4G: < 36 dBm WLAN 5G: 5150-5350MHz < 30dBm 5470-5725MHz < 30dBm

	5725-5895MHz < 36dBm WLAN 6G: 5945-6425MHz <24dBm

Módulos RF usados	Chip: NCM865 Wi-Fi 7 - 802.11 a/b/g/n/ac/ax / be Bluetooth 5.4
Declaración de conformidad	El equipo previamente individualizado cumple con las disposiciones establecidas en la Norma Técnica de Equipos de alcance reducido, aprobada por la resolución exenta N° 1.985, de 2017, de la Subsecretaría de Telecomunicaciones

1. WLAN Throughput Test

1-1 WLAN Throughput Testing Configuration:



Total Attenuation=Air Loss (path loss) + Loss of 2 cables + Attenuator - Testing antenna gain = 75dB

1-2 WLAN Waterfall Throughput Test (Worst channel)

☒(1) 802. 11n 40MHz (2.4 – 2.5GHz)

Throughput (Mbps)

2.4 GHz chamber total path loss valu	63.0 dB
AP Transmit power	30.0 dBm
Access point	Wi-Fi 7 AP RT-BE96U
Access point software version	
Turntable continuous rotation speed	1 RPM

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	Receive Level (dB) = AP TX - TPL - Att		1	2	3	4	5	6	Channel			
Attenuator setting (dB)	Total loss (Chamber + Attenuator)	2.4GHz Receive Level (dBm)	1 SS N RX (20MHz BW)	2 SS N RX (20MHz BW)	2SS N RX (40MHz BW)	1 SS AX RX (40MHz BW)	2 SS AX RX (40MHz BW)	2 SS BE RX (40MHz BW)	1	6	11	RX Re (Mbp
21	84	-54						310	365.5	374.5	377.6	372
33	96	-66						170	232.5	278.5	241.2	250
39	102	-72						90	155.6	174.5	171.5	167
42	105	-75						60	109	124	133	121

	Receive Level (dB) = AP TX - TPL - Att		1	2	3	4	5	6	Channel			
Attenuator setting (dB)	Total loss (Chamber + Attenuator)	2.4GHz Receive Level (dBm)	1 SS N RX (20MHz BW)	2 SS N RX (20MHz BW)	2SS N RX (40MHz BW)	1 SS AX RX (40MHz BW)	2 SS AX RX (40MHz BW)	2 SS BE RX (40MHz BW)	1	6	11	TX Re (Mbp
21	84	-54						340	352.5	341.2	349.5	347
33	96	-66						160	232.5	242.5	231.8	235
39	102	-72						90	152.3	154.2	163.6	156
42	105	-75						60	102	114	125	113

☒(1) 802. 11AC 80MHz (5.15 – 5.85GHz)

Throughput (Mbps)

5 GHz chamber total path loss value	76.0 dB
AP Transmit power	24.0 dBm
Access point	Wi-Fi 7 AP RT-BE96U
Access point software version	
Turntable continuous rotation spee	1 RPM

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Receive Level (dB) = AP TX - TPL - Att		1	2	3	4	5	Channel			
Total loss (Chamber + Attenuator)	2.4GHz Receive Level (dBm)	1 SS AC RX (80MHz BW) 1	2 SS AC RX (80MHz BW) 2	1SS AX RX (80MHz BW) 3	2 SS AX RX (80MHz BW) 4 1 SS AX RX (160MHz BW) 4	2 SS BE RX (160MHz BW) 5	36	100	149 (160MHz no support)	RX Result (Mbps)
78	-54	200	400	550	1105	1460	1555.6	1498.6		1527.1
90	-66	150	300	415	830	780	988.5	800.2		894.4
96	-72	120	250	345	690	480	762.6	600.2		681.4
99	-75	80	180	290	480	340	612	502		557.0

Receive Level (dB) = AP TX - TPL - Att		1	2	3	4	5	Channel			
Total loss (Chamber + Attenuator)	2.4GHz Receive Level (dBm)	1 SS AC RX (80MHz BW) 1	2 SS AC RX (80MHz BW) 2	1SS AX RX (80MHz BW) 3	2 SS AX RX (80MHz BW) 4 1 SS AX RX (160MHz BW) 4	2 SS BE RX (160MHz BW) 5	36	100	149 (160MHz no support)	TX Result (Mbps)
78	-54	150	300	415	830	1070	1112.6	1115.6		1114.1
90	-66	110	220	305	610	850	865.5	895.5		880.5
96	-72	60	130	180	360	370	450.6	405.5		428.1
99	-75	40	90	125	250	350	365	366		365.3

☒(1) 802.11 BE 160MHz (5.925 – 7.125GHz)

Access point	Wi-Fi 7 AP RT-BE96U
Access point software version	
Turntable continuous rotation spee	1 RPM

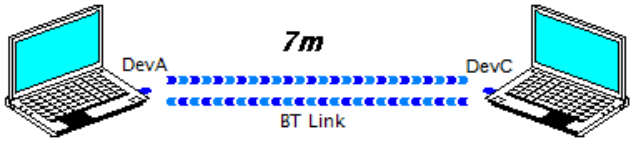
	Receive Level (dB) = AP TX - TPL - Att		1	2	3	4	Channel		
Attenuator setting (dB)	Total loss (Chamber + Attenuator)	2.4GHz Receive Level (dBm)	2 SS AX RX (80MHz BW) 1 1 SS AX RX (160MHz BW) 1	2 SS AX RX (160MHz BW) 2	2SS BE RX (160MHz BW) 3	2 SS BE RX (320MHz BW) 4	37 37-2(320MHz)	117 117-2(320MHz)	RX Result (Mbps)
Directly	62	-38	610	1,250	1,495	3250	4112.5	4125.6	4119.1
1	84	-60	450	900	1,075	1800	3155.5	3000.5	3078.0
7	90	-66	160	350	415	1300	2758.6	2223.6	2491.1
16	99	-75	100	200	230	350	1,535	1,200	1367.5
				100	120	240			

	Receive Level (dB) = AP TX - TPL - Att		1	2	3	4	Channel		
Attenuator setting (dB)	Total loss (Chamber + Attenuator)	2.4GHz Receive Level (dBm)	2 SS AX RX (80MHz BW) 1 1 SS AX RX (160MHz BW) 1	2 SS AX TX (160MHz BW) 2	2SS BE TX (80MHz BW) 3	2 SS BE TX (320MHz BW) 4	37 37-2(320MHz)	117 117-2(320MHz)	TX Result (Mbps)
Directly	62	-38	400	800	1,495	3330	3336.6	3389.5	3363.1
1	84	-60	170	350	1,075	2000	2158.5	2008.5	2083.5
7	90	-66	70	160	415	1320	1789.6	1562.5	1676.1
16	99	-75	40	80	230	390	800	612	706.0
						240			

2. Bluetooth Throughput Test

2-1 Bluetooth Throughput Testing Configuration:

A. Test tool: IxChariot v5.40 or later
B. BT use PAN profile link
C. Distance between 2 DUT : 7m
D. Pass criteria > 0.3 Mbps
E. Open space test



PS: No barriers between the two DUT

2-2 Bluetooth Throughput Test Result

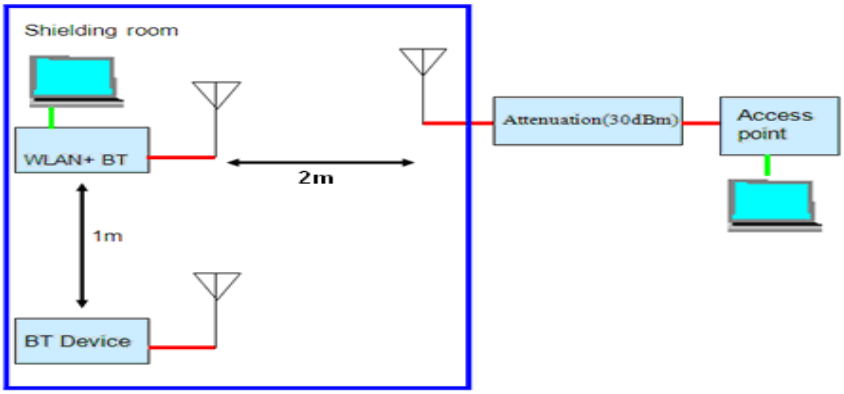
T Profile	Degree	UL Throughput (Mbps)	DL Throughput (Mbps)	Criteria
PAN				
PAN				
PAN				
PAN				
PAN				>0.3Mbps
PAN				
PAN				
PAN				
PAN				
PAN				
PAN				
PAN				

	PAN				
	PAN				
	PAN				
	PAN				

3. WLAN & BT Coexistence Test

3-1 WLAN & BT Coexistence Testing Configuration:

1. Antenna isolation > 15 dB (recommended > 20 dB)
2. Combo module (BT+WLAN) antenna isolation > 20 dB
3. In the shielding room test



3-2 WLAN & BT Coexistence Test Result: (Wi-Fi Lab 1)

☐11n 20M		☐11n 40M		Spec.			
Att. (dB)	**Receive Level**	CH1		20M		40M	
		WLAN Throughput (Mbps)		1 X 1	2 X 2	1 X 1	2 X 2
66	-38	TX	127.4	31	42	41	61
		RX	94.1				
76	-48	TX	90.1	22	30	34	50
		RX	63.2				
86	-58	TX	88.6	10	15	12	26
		RX	55.6				
96	-68	TX	X	0	0	0	0

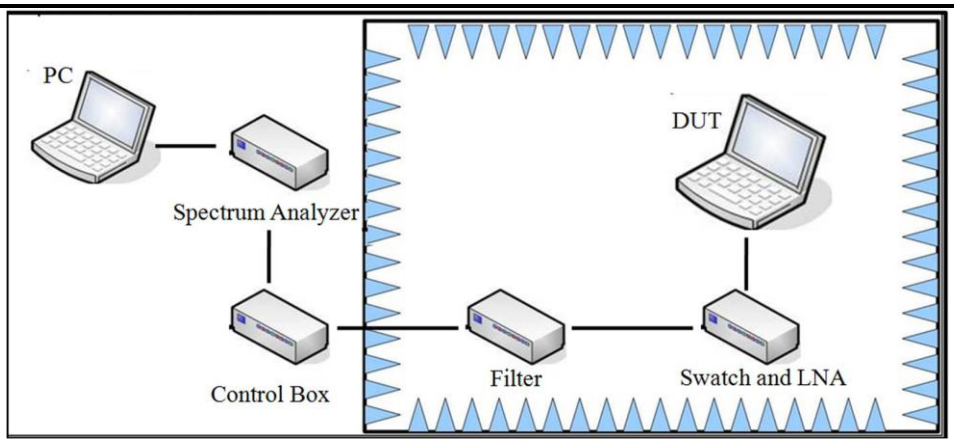
		RX	X				
101	-73	TX	X	0	0	0	0
		RX	X				

Att. (dB)	Receive Level	CH6		Spec.			
		WLAN Throughput (Mbps)		1 X 1	2 X 2	1 X 1	2 X 2
66	-38	TX	133.6	32	46	40	60
		RX	109.6				
76	-48	TX	113.1	20	28	30	42
		RX	80.5				
86	-58	TX	90.6	10	18	11	26
		RX	56.4				
96	-68	TX	X	0	0	0	0
		RX	X				
101	-73	TX	X	0	0	0	0
		RX	X				

Att. (dB)	Receive Level	CH11		Spec.			
		WLAN Throughput (Mbps)		1 X 1	2 X 2	1 X 1	2 X 2
66	-38	TX	135.4	31	45	38	59
		RX	114.6				
76	-48	TX	100.7	17	25	26	42
		RX	86.5				
86	-58	TX	66.6	12	16	13	28
		RX	30.5				
96	-68	TX	X	0	0	0	0
		RX	X				
101	-73	TX	X	0	0	0	0
		RX	X				

4. Platform Noise Test

4-1 Platform Noise Testing Configuration: With Burn-in Test



4-2 Platform Noise Test Result:

WLAN(2.4G): Start(2.4GHz) ~ Stop(2.5GHz) for Main Antenna	
☐MAX : -97dB / -87dB (Board Band/ Narrow Band)	☒Average : -107dB / -97dB (Board Band/ Narrow Band)

WLAN(5G): Start(5.1GHz) ~ Stop(5.8GHz) for Main Antenna	
☐MAX : -97dB / -87dB (Board Band/ Narrow Band)	☒Average : -107dB / -97dB (Board Band/ Narrow Band)

WLAN(6E): Start(5.925GHz) ~ Stop(7.125GHz) for Main Antenna	
☐MAX : -97dB / -87dB (Board Band/ Narrow Band)	☒Average : -107dB / -97dB (Board Band/ Narrow Band)

WLAN(6E) : Start(5.925GHz) ~ Stop(7.125GHz) for Aux	
☐MAX : -97dB / -87dB (Board / Narrow)	☒Average : -107dB / -97dB (Board / Narrow)