



EDIFIER W820NB Plus GTM Deck

Version 1.4

2024/02/29



W820NB Plus

Wireless Noise Cancellation Over-Ear Headphones

MAR. 2023

W820NB Plus

Wireless Noise Cancellation Over-Ear Headphones

IMMERSIVE SOUND WITH BOTH HI-RESS AUDIO& HI-RES AUDIO WIRELESS CERTIFIED

40mm dynamic driver with Titanium coated composite diaphragm plus LDAC codec

BATTERY LIFE

Up to 49 hours continuous playback when ANC off

ACTIVE NOISE CANCELLATION WITH AMBIENT MODE

Upgraded noise cancellation system for up to **-43dB** ANC depth. Isolates the unwanted noise and allows you to hear the environment sound

CRYSTAL CLEAR CALL QUALITY

Take your calls. Hassle free by DNN noise cancellation technology

CONNECTING TO PC AS WIRED HEADPHONES

Besides Bluetooth connection, can be also connected as wired headphones via USB cable

GAME MODE

Latency as low as 0.08s under game mode, enjoy seamless gaming experience

SUPER SOFT & COMFORT EAR CUSHION

Less pressure, better sound for all-day wearing

EDIFIER CONNECT APP

Personalize EQ controls and more

	ANC ON 33hrs		ANC OFF 49hrs		10min = 7hrs
--	------------------------	--	-------------------------	--	---------------------



ANC



Ambient Aware



Call Noise Cancellation



Dynamic Driver



Game Mode



EDIFIER CONNECT APP



5.2

MAR.
2023

W820NB Plus

Wireless Noise Cancellation Over-Ear Headphones

Packaging Structure & Layout



Box Content

Item	Quantity
Headset	1
Type-C Charging Cable	1
Manual	1



Carton Configuration

Product Weight	Around 221g (net weight)
Inner Carton	188mm×88mm×240mm (L×W×H), around 0.43kg (gross weight)
Master Carton	500mm×465mm×400mm (L×W×H), around 9.6kg (gross weight)
PCS/CTN	20pcs

EAN Code

Color Options	EAN Code	UPC Code
Black	6923520245413	/
Gray	6923520245437	/
Ivory	6923520245420	/
Blue	6923520245444	/
Green	6923520245987	/

MAR.
2023

W820NB PLUS

Wireless Noise Cancellation Over-Ear Headphones

Technical Specification

Bluetooth	V5.2
Bluetooth Protocol	A2DP,AVRCP,HFP
Effective Distance	10M
Playtime (hours)	ANC ON: 33hrs(SBC codec) ANC OFF:49hrs(SBC codec)
Battery Capacity	400mAh 3.8V
Charging Port	USB-C
Input	5V/1A
Charging Time	1.5h
Weight	221g

Audio Coding	LDAC,SBC
Driver	Φ40mm Dynamic
Impedence	32Ω
Sound Pressure Level	91dB±3dBSPL(A)
Frequency Response	20Hz-40KHz
Mircophones	5pcs
Microphone Sensitivity	/
IP Rating	/
Dimension (L x W x H mm)	164.8*191.3*82.3mm

**The specifications and functions are subject to the final launched product .*

EDIFIER Product Deck | W820NB Plus vs W820NB



		 <div style="display: flex; flex-direction: column; gap: 5px;"> <div style="border: 1px solid black; padding: 2px;">Hi-Res AUDIO WIRELESS</div> <div style="border: 1px solid black; padding: 2px;">Hi-Res AUDIO</div> <div style="border: 1px solid black; padding: 2px;">LDAC</div> </div>	 <div style="display: flex; flex-direction: column; gap: 5px;"> <div style="border: 1px solid black; padding: 2px;">Hi-Res AUDIO</div> </div>
	Model	W820NB Plus	W820NB
Appearance	Logo	EDIFIER	
	Inner Material of Ear Cushions	Upgraded Version	Normal Version
Features	Bluetooth Version	V5.2	V5.0
	Bluetooth Profile	A2DP,AVRCP,HFP	A2DP,AVRCP,HFP
	ANC	Active Noise Cancellation + Ambient Sound	Active Noise Cancellation + Ambient Sound
	ANC Depth	Around -43dB	Around -38dB
	ENC	1 Mic + AI Algorithm	1 Mic + AI Algorithm
	Playtime	ANC ON: 33hrs ANC OFF: 49hrs	ANC ON: 29hrs ANC OFF: 49hrs
	Charging Time	Around 1.5hrs 10mins = 7hrs	Around 1.5hrs
	Diver Unit	Φ40mm Dynamic	Φ40mm Dynamic
	Frequency Response	20Hz~40kHz	20Hz~40kHz
	Audio Codec	SBC, LDAC	SBC
	Sound Quality	Hi-Res AUDIO Hi-Res AUDIO WIRELESS	Hi-Res AUDIO
	Control	Physical Buttons	Physical Buttons
	Connection	Bluetooth(Wireless) USB-A to USB-C Cable(Wired)	Bluetooth(Wireless) USB-A to USB-C Cable(Wired)
	Edifier Connect App	✓	✓

W820NB Plus

MAR.
2023

Wireless Noise Cancellation Over-Ear Headphones

						
Product Name	EDIFIER W820NB Plus	EDIFIER W820NB	Soundcore Life Q30	JBL TUNE 710BT	Jlab Studio Pro ANC	SONY WH-CH710N
Price (USD)	/	/	\$79.99~\$84.99	\$79.99	\$79.99~\$99.99	\$114.90
Bluetooth Version	V5.2	V5.0	V5.0	V5.0	V5.0	V5.0
Driver Unit	Φ40mm	Φ40mm	Φ40mm	Φ40mm	Φ40mm	Φ30mm
Playtime	ANC ON: 33hrs ANC OFF: 49hrs	ANC ON: 29hrs ANC OFF: 49hrs	ANC ON: 40hrs ANC OFF: 60hrs	ANC ON: 35hrs ANC OFF: 50hrs	ANC ON: 43hrs ANC OFF: 45hrs	ANC ON: 35hrs
Audio Codec	SBC,LDAC	SBC	SBC, AAC	SBC, AAC	SBC, AAC	SBC, AAC
Fast Charging	10min = 7hrs	N/A	5min = 4hrs	5min = 3hrs	/	10min = 2hrs
Frequency Response	20Hz~40kHz	20Hz~40kHz	20Hz~40kHz	20Hz~20kHz	20Hz~20kHz	20Hz~20kHz
Cable	Type-C for charging & wired use	Type-C for charging & wired use	3.5mm AUX Cable&Type-C	3.5 mm AUX Cable& Type-C	3.5 mm AUX Cable& Type-C	3.5mm AUX Cable (1.2m)& Type-C (20cm)
APP	✓ (New function:Soothing sounds)	✓	✓	X	X	X

EDIFIER Product Deck | Wireless Headphones Family



Model	W600BT	WH500	W800BT Plus	W820NB	W820NB Plus	WH950NB	STAX SPIRIT S3
Price (USD)	/	/	/	/	/	/	/
Bluetooth Version	V5.1	V5.2	V5.1	V5.0	V5.2	V5.3	V5.2
Driver Size	40mm	30mm	40mm	40mm	40mm	40mm	Planar Magnetic
ANC	N/A	N/A	N/A	✓	✓	✓	N/A
Voice Call Noise Cancellation	✓	✓	✓	✓	✓ (Single Mic+ AI Algorithm)	✓ (6 Mic)	✓ (aptX Voice)
Playtime	30hrs	40hrs	55hrs	ANC ON: 29hrs ANC OFF: 49hrs	ANC ON: 33hrs ANC OFF: 49hrs	ANC ON: 35hrs ANC OFF: 58hrs	80hrs
Charging Time	3hrs	2hrs / 10mins = 6hrs	2.5hrs	1.5hrs	1.5hrs / 10mins = 7hrs	1.5hrs / 10mins = 7hrs	2hrs
Control	Mechanical buttons (#3)	Mechanical buttons (#4)	Mechanical buttons (#3)	Mechanical buttons (#4)	Mechanical buttons (#4)	Mechanical buttons (#4)	Mechanical buttons (#3)
Foldable	X	✓	X	X	X	✓	✓
Dual Device Connect	✓	✓	✓	X	X	✓	✓
Connector	Type-C USB / Aux-in cable	Type-C USB	Type-C USB	Type-C USB	Type-C USB	Type-C USB / Aux-in cable	Type-C USB / Aux-in cable
Weight	Around 168g	Around 172g	Around 195g	Around 220g	Around 221g	Around 296g	Around 329g
APP	X	✓	✓	✓	✓	✓	✓
Color	Black / Grey / Blue	Black / White / Blue	Black / White / Red	Black / Grey / Ivory / Blue	Black / Grey / Ivory / Blue Green	Black / Ivory	Black

Thanks ;) 