

Specifications

HDB 630

Model: HDBT

Wearing style	Bluetooth® around-ear, closed-back
Ear coupling	circum-aural
Transducer principle	dynamic
Transducer	42 mm
Speaker Frequency Range	6 Hz to 40,000 Hz (when using Line-In, USB (96kHz sampling rate) or Bluetooth with aptX™ Adaptive (96kHz)) 6 Hz to 22,000 Hz
Speaker Sensitivity	105 dB SPL (1 kHz/0 dB FS)
Speaker THD	<0.2% (1 kHz, 100 dB SPL)
Microphone principle	MEMS
Microphone frequency response	50 Hz to 10,000 Hz (-3 dB)
Microphone pick-up pattern (speech audio)	4 omni-directional microphones 2x2-mic beamforming array
Power supply	built-in rechargeable lithium-polymer battery: 3.7 V ⁻⁻⁻ , 700 mAh, 2.59 Wh USB charging via USB C socket: 5 V ⁻⁻⁻ , 750 mA max.
Charging time of rechargeable battery	approx. 2 hrs
Operating time	up to 60 hrs (music playback via Bluetooth with ANC activated)
Temperature range	<i>operation</i> : 0°C to +40°C <i>charging</i> : +10°C to +40°C <i>storage</i> : -20°C to +60°C
Relative humidity (non condensing)	<i>operation</i> : 10 to 80% <i>storage</i> : 10 to 90%
Weight (headphones)	approx. 293 g
Magnetic field strength	6.25 mT

Bluetooth

Version	Bluetooth 5.2 compliant, class 1
Transmission frequency	2,402 MHz to 2,480 MHz
Modulation	GFSK, $\pi/4$ DQPSK, 8DPSK
Profiles	HFP, AVRCP, A2DP
Output power	10 mW (max)
Codec	aptX™ Adaptive, AAC, SBC

Device name	HDB 630 (individually adjustable) LE-HDB 630 (Bluetooth Low Energy only)
Number of active connections	2

BTD 700 Bluetooth® USB Adapter

Model: BTD 700

Dimensions (Length x width x height)	approx. 23.8 mm x 15.2 mm x 7.6 mm
Weight	approx. 2.2 g
USB interface	USB 2.0
Power supply	5 V $\overline{=}$, 100 mA
Input voltage	4.75 to 5.25 V $\overline{=}$
Operating current	\leq 100 mA
Standby current	< 2.5 mA
Temperature range	<i>operation</i> : 0 to +40°C <i>storage</i> : -25 to +70°C
Relative air humidity, non-condensing	<i>operation/storage</i> : < 85%
Supported host operating systems	Windows 10 or higher Mac OS V11 and V12 Android 13 or higher iPhone or iPad with USB C

Bluetooth

Version	Bluetooth 5.4 compliant, class 1
Transmission frequency	Classic BDR/EDR and BLE 1M: 2,402 MHz to 2,480 MHz, BLE 2M: 2,404 MHz to 2,478 MHz (without 2,426 MHz)
Modulation	GFSK, $\pi/4$ DQPSK, 8DPSK
Profiles	HFP, A2DP, Auracast™
Output power	10 mW (max)
Codec	Qualcomm® aptX™, Qualcomm® aptX™ Adaptive Audio, Qualcomm® aptX™ Lossless, SBC, LC3
Device name	BTD 700
Range	up to 50 m