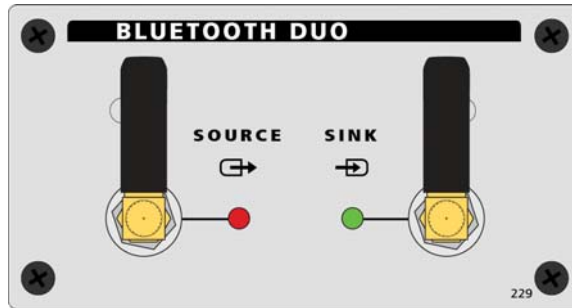


Bluetooth input/output module specifications

with APx500 v4.5 or higher measurement software
as fitted in APx52x, 555 and 58x audio analyzers
NP0020.00026 rev A
July 2017



This illustration shows the Bluetooth Duo module, model 229.

These specifications cover the digital input and output functions of the Audio Precision Bluetooth Duo interface.

Bluetooth is a short-distance (a few meters) control, data, and audio communications wireless technology. Bluetooth uses low power, frequency-hopping radio in the 2.4 GHz band. Communication is two-way (for handshaking, metadata, etc); some profiles (HFP, for example) support duplex audio (both directions simultaneously); some profiles (A2DP) support only simplex audio (one direction per connection). Audio Precision supports several audio-specific Bluetooth profiles for audio test.

Bluetooth specifications begin on the next page.

Characteristic	Specifications	Supplemental Information
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Bluetooth Core Version			
		4.2	
Profiles/Roles, versions			
		A2DP Source/Sink 1.3	
		AVRCP Controller/Target 1.4	
		HFP Hands-Free 1.7	
		HFP Audio Gateway 1.7	
		HSP Headset/Audio Gateway 1.2	
A2DP Codecs			
		SBC	
		aptX	
		aptX Low Latency	
		aptX HD	
		AAC	
HFP Codecs			
		CVSD	
		mSBC	
RF Connections, Source and Sink			
		SMA x2	
RF Input Impedance			<i>Typically 50 Ω</i>
RF Output Impedance			<i>Typically 50 Ω</i>
RF Power			<i>Typically 0 dBm</i>
			<i>Typical maximum +8 dBm</i>
RF Sensitivity (0.1% BER)			<i>Typically -81 dBm</i>