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Title: Iris V2, Deep Space Communications, Navigation, and Radio Science for SmallSats

Abstract: The Iris CubeSat Compatible, deep space transponder is now in Version 2 development for several planned deep space CubeSat missions. Iris V2 features X-Band power output of four watts, designed flight longevity of 2-3 years in deep space, and proper thermal management within a SmallSat context. These and other improved Iris features enable telecommand, telemetry, and radio science from destinations up to a few Astronomical Units from Earth.

Keywords: "Deep Space Network", "Deep Space Communications", "Deep Space Navigation", CubeSat, Radio Science

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