

EXHIBIT B
SiBEAM, Inc.
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FCC FORM 442 - FEDERAL COMMUNICATIONS COMMISSION
APPLICATION FOR NEW OR MODIFIED RADIO STATION UNDER PART 5
OF FCC RULES - EXPERIMENTAL RADIO SERVICE (OTHER THAN
BROADCAST)

Product Descriptions

1. SB-P3A-9120A WiHD Video Source System

The SB-P3A-9120A WiHD Video Source System consists of 1.5 Gb/s serial digital data source which is modulated with on-off keying at a 3-3.5 GHz IF center frequency. The IF spectrum is about 3 GHz wide from null to null. The IF is then up converted to a 60-60.5 GHz center frequency (57 GHz LO) where is radiated by a 36-element antenna array (nominally 15 dBi gain) measuring approximately 2 cm on a side.

The transmitter 3 GHz first LO is generated with a PLL while the transmit and receive 57 GHz LOs are generated with DROs.

The digital electronics are common, off-the-shelf (COTS) parts, comprising largely field-programmable gate arrays (FPGAs) while the RF chips are custom CMOS integrated circuits that have been designed by SiBEAM.

2. SB-P3A-9121A WiHD Video Receiver System

The SB-P3A-9121A WiHD Video Receiver System consists of an antenna array identical to that of the video source; it feeds the modulated signal at 60-60.5 GHz center frequency to the RF receiver chain. A 57 GHz LO is used to down convert the RF signal to a 3-3.5 GHz IF. The 1.5 Gb/s on-off keying signal is detected at the IF frequency.

The digital electronics are common, off-the-shelf (COTS) parts, comprising largely field-programmable gate arrays (FPGAs) while the RF chips are custom CMOS integrated circuits that have been designed by SiBEAM.