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Project: DP1003

Product: MN20700-03 Clinical Programmer

FCC ID: Y8L-MN20700-03

From: April Pixley

Theory of Operation

Link Margin

The '400 MHz' Transceiver is used for MICS band communication. The Transceiver operates on

channels within the allocated band of 402-405 MHz. The Basestation selects a channel using a

Clear Channel Assessment routine. The Zarlink/Microsemi transceiver at each end of the

communication link operates as a half-duplex transceiver. The Transmitter and Receiver subsystems

are enabled alternately, as required by the Zarlink communication protocol.

Downlink: Effective Radiated Power (EIRP) is limited to -16 dBm maximum. This has the most effect

on the downlink Tx portion. The Programmer is limited to -16 dBm EIRP in air for downlink power.

The Programmer includes an LNA outside of the RF chip but on the Basestation board to improve

the Uplink by a net total of 7 dB.