Stylus Base Station Module Compliance

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The base station module complies with applicable requirements as follows:

(1) All RF circuitry and traces are covered by a machined aluminum shield. The aluminum shield is attached to the printed circuit board with screws. The top layer of the board is flood-filled with ground plane, and the solder mask is restricted in such a way as for the shield to make electrical contact to the board. RF signals are routed only on the top layer of the board, and they are shielded from underneath by the ground plane of the four-layer PCB.

(2) The module accepts a synchronization signal from the rest of the system, which determines the timing with which it broadcasts the synchronization packets. The rest of the system has no other ability to change the data transmitted by the module, and no ability to change the modulation scheme or transmit power.

(3) The module is powered by a +5V rail, provided by the rest of the system. Within the module, this rail feeds a +3V linear regulator. All electronics within the module, including the radio, are powered by the +3V rail.

(4) The antenna connects to the module on an RP-SMA connector.

(5) The module requires power and synchronization signals from the rest of the system to function. This interface is nonstandard, and no commercially-available system can drive it. The module is intended for first use in a 27" LCD monitor. For test purposes, the module may be driven by the unmodified printed circuit board assembly from that monitor.

(6) An example of a label bearing the module's FCC ID is enclosed. In system, this label will not be visible, so an exterior label will be required on the end unit.

(7) The radio protocol is fully described in the attachment, and is designed to comply with 15.247.

(8) The radio protocol, including all transmit powers, is fully described in the attachment.