# REGULATORY COMPLIANCE REPORT

## FCC CFR 47 Part 1.1310

## Report No.: BLYK06-U3 Rev A (FCC MPE)

**Company:** Novanta Corporation

**Model Name:** M7E-HECTO

# REGULATORY COMPLIANCE REPORT

**Company Name:** Novanta Corporation

**Model Name:** M7E-HECTO Module

**To:** FCC CFR 47 Part 1.1310

**Test Report Serial No.:** BLYK06-U3 Rev A (FCC MPE)

This report supersedes: NONE

Applicant: Novanta Corporation
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Issue Date: 16th December 2023

**This Test Report is Issued Under the Authority of:**

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# 1. MAXIMUM PERMISSABLE EXPOSURE

**Calculations for Maximum Permissible Exposure Levels**

Power Density = Pd (mW/cm$^2$) = EIRP/(4*π*d$^2$)
EIRP = P * G
P = Peak output power (mW)
G = Antenna numeric gain (numeric)
d = Separation distance (cm)
Numeric Gain = 10 ^ (G (dBi)/10)

Because the EUT belongs to the General Population/Uncontrolled Exposure group, the limit of power density for devices operating below 1500 MHz equals f/1500 mW/cm$^2$ , where f = frequency in MHz.

The calculations in the table below use the highest conducted power values together with the lowest antenna gain specified for the EUT. These calculations represent worst case in terms of the exposure levels.

| Freq. Band (MHz) | Ant Gain (dBi) | Numeric Gain (numeric) | Peak Output Power (dBm) | Peak Output Power (mW) | Calculated Power Density (mW/cm$^2$) @ 20cm | Power Density Limit (mW/cm$^2$) | Min Calculated safe distance for Limit (cm) |
|---|---|---|---|---|---|---|---|
| 902.75 – 927.25 | 6.0 | 3.98 | 27.176 | 521.92 | 0.41 | 0.60 | 16.60 |

From the above calculation the minimum safe distance between users and the EUT to meet the FCC §1.1310 requirements is 20.0 cm even though the calculated distance is 16.6 cm

**Specification - Maximum Permissible Exposure Limits**

The Limit is defined in Table 1 of FCC §1.1310 for General Population/Uncontrolled Exposure.

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