

ATLAS MDT Mezzanine Card  
Radiation Tolerance Summary  
Jun 24, 2009

Device	Test TID (krad)	Fail TID	Fail mode	Notes
MDT-ASD	300	None	None	Production ASD
ASD00A	1000	None	None	18% gain reduction (see PRR for details)
AMT-3	30 45 70	OK leak. Curr. Incr. No function	None	
LP3964 – 3.3V	100	70	Short ckt	
TMP36 Temperature Sensor	300	10	Calibration lost	Slope ok to 300krad+
SN65LVDS179DGK LVDS Driver/Receiver	300	300	None	

References:

[AMT-3 Production Readiness Review](#)

[MDT-ASD Production Readiness Review](#)

[TMP36 Radiation Test Report](#)

[Voltage Regulator Test Reports](#)

[Plot](#) of output vs dose for 3 candidate regulators