


PROBLEM ADVISORY

1. TITLE LEON3FT RETT Restart Errata			2. DOCUMENT NUMBER SPO-2020-PA-0005																	
			3. DATE (Year, Month, Date) 2018, February 22nd																	
4. MANUFACTURER NAME AND ADDRESS CAES 4350 CENTENNIAL BOULEVARD COLORADO SPRINGS, COLORADO 80907-3486			5. MANUFACTURER POINT OF CONTACT NAME Gaisler Support																	
			6. MANUFACTURER POINT OF CONTACT TELEPHONE +46 (0) 31 775 8650																	
			7. MANUFACTURER POINT OF CONTACT EMAIL support@gaisler.com																	
8. CAGE CODE 65342	9. LDC START 1836/1507/1535	10. LDC END 1935/1906/1939	11. PRODUCT IDENTIFICATION CODE See table below for PA	12. BASE PART See table below																
13. BLANK			14. SMD NUMBER See table below	15. DEVICE TYPE DESIGNATOR 01																
			16. RHA LEVELS R	17. QML LEVEL See table below																
			18. NON QML LEVEL N/A	19. GIDEP NUMBER GB4-P-20-05B																
20. PROBLEM DESCRIPTION / DISCUSSION / EFFECT This document describes an erratum for the LEON3FT processor for a corner case requiring both a trap handler returning to a specific instruction, and a radiation induced upset in a specific location in the instruction cache memory, to occur close in time to each other. The likelihood of triggering the errata is application dependent, but is under typical application scenarios very low. The document also presents a software workaround for the issue.																				
<table border="1"> <thead> <tr> <th>Base part number</th> <th>PIC</th> <th>SMD number</th> <th>QML Level</th> </tr> </thead> <tbody> <tr> <td>UT699</td> <td>WG07</td> <td>5962-08228</td> <td>Q,V</td> </tr> <tr> <td>UT699E</td> <td>WQ02</td> <td>5962-13237</td> <td>Q</td> </tr> <tr> <td>UT700</td> <td>WQ03</td> <td>5962-13238</td> <td>Q,V</td> </tr> </tbody> </table>					Base part number	PIC	SMD number	QML Level	UT699	WG07	5962-08228	Q,V	UT699E	WQ02	5962-13237	Q	UT700	WQ03	5962-13238	Q,V
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21. ACTION TAKEN / PLANNED LEON3FT: RETT Restart Technical note 2020-01-31 Doc. No GRLIB-TN-0018 Issue 1.0																				
22. DISPOSITIONARY RECOMM 23. ENDATION:		CHECK & <input checked="" type="checkbox"/> USE AS IS	CONTACT <input type="checkbox"/> MANUFACTURER	REMOVE & <input type="checkbox"/> REPLACE	CORRECT & <input type="checkbox"/> USE AS SPECIFIED															
24. ADEPT REPRESENTATIVE Lin-Chi Huang		25. SIGNATURE 			26. DATE 2018, February 22nd															