TEST UNIT AND EQUIPMENT:

GU256X32D-K610A8v3 serial 703587 was tested between 5-Mar and 7-Mar, 2008.

Weiss WKL 100 Environmental Chamber serial 2200499200 calibrated 14-Aug-2007. Shaffner NSG435 ESD simulator PA0138 uncalibrated. Agilent E4402B spectrum analyser PA0193 calibrated 9-Nov-2007.

OPERATING CONDITION:

RF emission and ESD: Vcc = 5V, GND = 0V, module operating in self-test mode. Temperature test: Vcc = 5.25V and 4.75V, module operating in self-test mode.

TEMPERATURE RANGE:

The module was brought to temperature in the Weiss-Technik chamber and stabilised for the specified time at each temperature before being powered on in self-test mode. Then visual quality of the display was inspected.

Temp	Duration	Ouration Observation						
-40C	40C 2 hours Off, storage							
-40C	40C 1 hour Operating, OK							
+85C	4 hours	Off, storage						
+85C	1 hour	Operating, OK						

ELECTRO-STATIC DISCHARGE (Method IEC 6100-4-2):

The module was powered up in self-test mode on the test table. There it was exposed to contact and air discharges applied to the ribbon cable across the module face, the horizontal conductive plane under the module, and the vertical conductive plane.

Observation	Contact Discharge	Air Discharge		
Lowest voltage discharged	1kV	8kV		
Temporary spurious ON/OFF of pixels	None	None		
Module reset or lock-up	9kV	16kV		
Permanent damage	None	None		
Highest voltage discharged	9kV	16kV		

CONDUCTED RF EMISSION TEST:

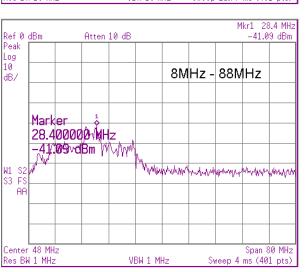
The 50-ohm input of the Agilent E4402B spectrum analyser was AC-coupled to the 5V supply of the module. While the module performed self-test, the spectra shown overleaf were taken:

Start	Stop	Spectra	Significant UUT peaks				
50 kHz	2050 kHz	UUT	-30dBm @165kHz, -41dBm @330kHz				
1 MHz	11 MHz	UUT	None				
8 MHz	88 MHz	UUT	-41dBm @28.4MHz				
80 MHz	280 MHz	UUT, background	-55dBm @121MHz				
0.2 GHz	3 GHz	UUT	None				

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Environmental Test

Mkr1 165 kHz Ref0 dBm Peak Atten 10 dB -30.6 dBm Log 10 dB/ 50kHz - 2050kHz S2 FS W1 \$3 ÂÂ WAN Un Alexandra Martin Walder ₩ V w Center 1.05 MHz Span 2 MHz Sweep 25.77 ms (401 pts) Res BW 10 kHz VBW 10 kHz



Ref Ø	dBm		Atten	Mkr1 914 M 10 dB -60.99 dB						
Peak Log										
10 dB/						0.20	GHz	- 3G	Hz	
	Spar	1								
	2.80	0000	000	GHz						
	h.	Ante	1	LALAM	Madpatran	nulpur	the Army a	MAN	www.	unhand
W1 S2 S3 FS										
AA										
	1.6 GH 3 MHz			V	BW 3 MI	Ηz	Sweep	4.667	Span 2 ms (40	

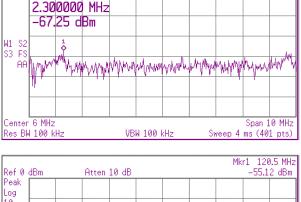
Mkr1 2.300 MHz dBm Atten 10 dB -67.25 dBm 1 1 1 1 1 1 Marker 1 1 1 1 1 1

Ref 0 dBm

Peak

Log

10 dB/



Log											
10 dB/						80M	Hz -	280	MHz		
	Mark										
			00 M	Hz							
	-55.	12 d	Bm								
W1 S2 S3 FS	mandah	MAN	No ware	man	Ann	mann	whenhand	handlithing	hhan	MANNA	
53 FS AA						-					
					-	-					
Center									Span 20		
Res Bk	I 1 MHz	2		V	BW 1 M	Hz	Sv	Sweep 4 ms (401 pts)			

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