



PRODUCTION TEST REPORT

Issued by Sensys Gatso Sweden AB

Production test execution time:
2023-06-16 10:33:52

Order reference:
50300134

PRODUCT

RT4.1 Front-End 11-0765B

DUT SERIAL NUMBER

00308

TEST RESULT

PASSED

SUPPLIER

Kitron

DUT INFORMATION

Product number: 11-0765B
Production serial number: 00308
FE serial number: 3636951E0000
Internal temperature [C]: 27
Internal calibration result: Success

BE ADAPTER INFORMATION

Application version: 21.1.0.0
Bootloader version: 3.0.0
FPGA version: 1.3.0.0
BE serial number: A8691C1D0000
External power [V]: 11.25
Internal temperature [C]: 30
Internal self-test result: Success

SIMULATOR INFORMATION

Simulator Product number: 19-6600A
Simulator serial number: 00003
Expiry date: 2025-02-15
Application version: 3.4.0.0
Bootloader version: 3.0.0
FPGA version: 1.2.0.0
BE serial number: 217B1C1D0000
FE serial number: 29CBC51B0000
External power [V]: 11.21
Simulator BE temp [C]: 32
Self-test: Success
Simulator UI version: 3.0.8.0

DOCUMENT INFORMATION

Template: 11-0765B_Production.docx 2023-06-09

DUT CURRENT

Parameter	voltage_psu_v	i_a	m_a	t_a	i-t_a	l_t_a	Result
Total current	12.00	0.548	0.528	0.050	0.498	0.598	Ok
FE current	12.00	0.302	0.286	0.050	0.252	0.352	Ok

DUT HEALTH FE ENABLED

parameter	value	min	max	result
UIN (V)	11.25	9.60	43.20	Ok
6V5 (V)	6.65	6.27	6.93	Ok
3V3 (V)	3.28	3.13	3.46	Ok
1V8 (V)	1.80	1.71	1.89	Ok
1V0 (V)	1.00	0.95	1.05	Ok
5V5A (V)	5.47	5.22	5.77	Ok
1V8A (V)	1.81	1.71	1.89	Ok
3V3A (V)	3.31	3.13	3.46	Ok
5V5 current (A)	0.492	0.345	0.585	Ok
BE Temp (C)	30	-30	70	Ok
FE Temp (C)	27	-30	70	Ok
FPGA Temp (C)	38	-30	100	Ok
Self test	Success	Success	Success	Ok

DUT POWER SA

mpa	i_power_db	m_power_db	t_db	i-t_u_db	i_t-u_db	Result
0	23.4	22.8	4.0	19.4	27.4	Ok
1	22.9	22.4	4.0	18.9	26.9	Ok
2	22.3	21.8	4.0	18.3	26.3	Ok
3	21.8	21.2	4.0	17.8	25.8	Ok
4	21.2	20.5	4.0	17.2	25.2	Ok
5	20.6	20.0	4.0	16.6	24.6	Ok
6	20.1	19.4	4.0	16.1	24.1	Ok
7	19.4	18.8	4.0	15.4	23.4	Ok
8	18.8	18.2	4.0	14.8	22.8	Ok
9	18.0	17.5	4.0	14.0	22.0	Ok
10	17.3	16.7	4.0	13.3	21.3	Ok
11	16.5	16.0	4.0	12.5	20.5	Ok
12	15.5	15.1	4.0	11.5	19.5	Ok
13	14.4	14.1	4.0	10.4	18.4	Ok
14	13.0	12.7	4.0	9.0	17.0	Ok
15	9.9	10.2	4.0	5.9	13.9	Ok
6	MPA set	19.4				

DUT FREQUENCY

measurement	vco_mhz	if_mhz	m_mhz	u_hz	min_mhz	max_mhz	Result
Frequency low	24005.000	6.647	24011.647	229.1	24000.60	24249.40	Ok
Frequency high	24240.000	6.607	24246.607	173.8	24000.60	24249.40	Ok
Modulation frequency	NA	NA	234.960	284.9	233.96	235.96	Ok

DUT FREQUENCY SA

measurement	m_mhz	u_mhz	min_mhz	max_mhz	Result
Frequency low	24009.352	0.436	24000.436	24249.564	Ok
Frequency high	24247.630	0.436	24000.436	24249.564	Ok
Modulation frequency	236.533	0.617	228.396	241.524	Ok

DUT RAMP LINEARITY

i_mhz	m_mhz	t_mhz	u_mhz	i-t_u_mhz	l_t-u_mhz	peakwidth	peakwidth_limit	Result
5.000	5.004	0.050	0.018	4.968	5.032	4.0	6	Ok

TEST REPORT

DUT ANGLE

nr_of_d etection	ttx1_ang le_deg	ttx1_po wer_db	ttx2_ang le_deg	ttx2_po wer_db	i_angle_ diff_deg	m_angle_ _diff_de g	t_angle_ diff_deg	i- t_u_deg	i_t- u_deg	Result
1	86.0	-53.4	94.0	-51.4	7.0	8.0	6.0	1.0	13.0	Ok

DUT SENSITIVITY

dac_freq_mhz	samples	dac_index	peak_index	peak_power_db	peak_power_limit_ db	Result
500000.0	87	61.4	61.0	-56.8	-69.0	Ok
1000000.0	72	122.9	123.0	-51.4	-63.7	Ok
1500000.0	72	184.3	184.0	-50.1	-63.1	Ok
2000000.0	60	245.8	246.0	-49.7	-62.3	Ok
2670000.0	57	328.1	328.0	-48.8	-61.2	Ok

DUT NOISE

dac_signal	meastime_ms	number_of_detections	limit	Result
ON	100	349	> 50	Ok
OFF	100	0	< 10	Ok
ON	100	483	> 50	Ok