



DECLARATION OF DESIGN AND PERFORMANCES(DDP)

FOR

ELiTe ELT in AUTOMATIC FIXED CONFIGURATION

Composed of

One ELiTe TRANSMITTER

One ELiTe AF-BRACKET

One ELiTe Coding Tag

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1 Revision History

REV	Date	Description
A draft 1	July, 2016	Creation (Preliminary)
A draft 2	Nov, 28, 2016	Incorporation of first EASA remarks
A Preliminary	Jan 10, 2017	Incorporation of Customers remarks
B Preliminary	Mar 03, 2017	Incorporation of Customers and EASA remarks: Limitations and list of non ETSO functions added
C Preliminary	Mar 16, 2017	Incorporation of Clients and EASA remarks: - New template
D	June 14, 2017	Add OPR list
E	July 20, 2017	Incorporation of EASA remarks

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2 Purpose

This document is the declaration of design and performance (DDP) of the ELTA ELiTe ELT in Automatic Fixed configuration.

2.1. Relevant ETSO numbers

ETSO-C126b

ETSO-C142a

2.2. Applicable technical specifications

EUROCAE ED-62A

RTCA DO-204A

RTCA DO-227

3 Manufacturer information

Manufacturer:

ELTA F6614

Manufacturer address:

15, Avenue du Docteur Maurice Grynfogel

ZAC de BASSO CAMBO

31035 TOULOUSE CEDEX 1

FRANCE

Equipment designation : ELT

Model : ELiTe ELT, AUTOMATIC FIXED CONFIGURATION (AF Type)

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3.1. Vendor part number(s)

The ELiTe ELT in Automatic Fixed configuration is composed of the following part numbers:

P/N 12N67880 Rev (X) ELiTe TRANSMITTER

P/N 12N67900 Rev (X) ELiTe AF-BRACKET

P/N 12N67890 Rev (X) ELiTe Coding Tag

Note : Rev (X) corresponds to Minor Engineering change order management (amendment). It keeps fit- form – function. It keeps full interchangeability.

P/N	Designation	ETSO-C142a	ETSO-C126b
12N67880 Rev (X)	ELiTe TRANSMITTER	X	X (Class 2)
12N67890 Rev (X)	ELiTe Coding Tag	-	X (Class 2)
12N67900 Rev (X)	ELiTe AF BRACKET	-	X (Class 2)
15N63626 Rev (X) (ELiTe Battery servicing kit 17N20439 Rev (X))	ELiTe Battery pack	X	-

Note 1 : 15N63626 is a subpart of 12N67880.

Note 2: 17N20439 is a servicing kit composed of the following items: 15N63626 and Label Battery Servicing 14P60437.

3.2. Manufacturer specifications

Transmitter Specification	12E68376 issue R
Automatic Fixed Bracket Specification	12E68377 issue G
Technical Specification for C/S Identification Tag	14E61057 issue D
User Interface Beacon Specification	13E65598 issue P

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4 Technical description

4.1. Brief technical description

The ELiTe ELT in Automatic Fixed configuration is a dual (2) frequencies ELT operating on 121.5 & 406.040 MHz.

It is an Automatic Fixed (AF) basic type. It can be connected to an external antenna, A/C 28 Vdc Power Supply, A/C Data Bus (ARINC 429 high speed) and can be remotely controlled from a cockpit Remote Control Panel.

The ELiTe ELT in Automatic Fixed configuration embeds provision (one discrete) for "inflight activation" capability.

It incorporates embedded secondary antenna that can transmit on 121.5 & 406.040 MHz when primary external antenna failure is detected (backup antenna).

Automatic activation direction is selectable (4 directions 90° step).

The ELiTe ELT in Automatic Fixed configuration can transmit A/C location information inside COSPAS/SARSAT (C/S) long message in User Location or Standard Location Protocols.

Location data transmitted in C/S long messages are issued from ARINC 429 A/C data bus (Ext. Nav. Data, primary) or internal GNSS Receiver (backup).

The ELiTe TRANSMITTER frequencies are licensed by ITU.

4.2. General parameters

PARAMETER	SELECTED VALUE	REMARKS
Operating temperature	-20°C; +55°C	Class 2
Storage temperature	-55°C ; +85°C	in accordance with ED-62A/DO-204A +80°C for battery packs, 20°C recommended for uninstalled ELT in order to limit the battery self discharge
Applicable standard	EUROCAE ED-62A/DO-204A	for the tests applicable to "AF" basic type ELT
Batteries used	2 "D" cells in serie	Solid cathode LiMnO_2
Battery pack	ETSO-C142a marking: Lithium battery non rechargeable, battery voltage and capacity, positive terminal polarity, amount of lithium, class, warnings, date of manufacture	

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Batteries compartment	On the bottom of the electronics	Removable without acces to the electronics
Manual self-test	Activated by pushing the push button "TEST or RESET" on Remote Control Panel (RCP) or "TEST or RESET" on ELiTe TRANSMITTER. Check of the - output power (& related batteries voltage & capacity), 406 MHz Frequency during a modulated 406 transmission with inverted frame synchronization (self test pattern), external antenna connection, C/S identification, ARINC 429 connection-Operation and +28Vdc. 0.75s of 121.5 MHz is sent during self test.	Automatic return to ARMED. Correct self test display: 10 s "ON" on the RCP LED and 3s green ELT LED, display message "selftest OK" Failed self test display: 10 s blinking on the RCP LED and 3s red ELT LED, display message "selftest KO" In case of ARINC 429 self test failure, additional 10 s blinking condition is added. After the ELT selftest report display
Delay prior first distress signal transmission	50 s after the self test report	
Display on beacon	Visual (Light strobe and display message)	ELT distress transmission, light strobe 1ms active every 15s

4.3. 121.5 MHz Transmitter (HOMING)

Emission type (per ITU): 3K20A3X.

"A" double side band; "3" single channel, analog information, "X" other (audio sweep).

PARAMETERS	SELECTED VALUE	REMARKS
Carrier Frequency	121.5 MHz $\pm$ 6 KHz	In accordance with ED-62A/DO-204A
Medium term slope	< 0.2 ppm/mn	In accordance with ED-62A/DO-204A
Medium term standard deviation	< 0.05 ppm	In accordance with ED-62A/DO-204A
PT Beacon output power (Primary external Antenna acces / 50 Ω).	P = +22 dBm	In accordance with ED-62A/DO-204A
Primary external antenna (Blade)	COBHAM (formely CHELTON) Model 2632-82	Could be supplied by ELTA under P/N 31908.

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Alt. external Primary Antenna (Rod)	Chelton antenna Model 1327-82	Could be supplied by ELTA under P/N 11243.
Modulation	Amplitude	In accordance with ED-62A/DO-204A
Transmission	Duty Cycle 33% 0.75s ON, 1.5s OFF	In accordance with ED-62A/DO-204A
Frequency modulation	Audio	In accordance with ED-62A/DO-204A
Excursion	Between 350 and 1250 Hz	In accordance with ED-62A/DO-204A
Repetition rate	3 Hz	In accordance with ED-62A/DO-204A
Utilisation coefficient	> 50 Hz	In accordance with ED-62A/DO-204A
Component	Symmetrical	In accordance with ED-62A/DO-204A
Power repartition	> 50 %	In accordance with ED-62A/DO-204A
Warm-up time	5 mn	In accordance with ED-62A/DO-204A
Minimum operating life duration at -20°C	>= 60 H	Taking into account 1 self-test every 6 months and 5 years old batteries (48 hours required in ED-62A/DO-204A)

4.4. 406.040 MHz Transmitter

COSPAS-SARSAT Type Approval Number : 291.

Emission type (per ITU): 16K0G1D.

“G” phase modulation; “1” single channel with digital information, “D” Data transmission).

PARAMETERS	SELECTED VALUE	REMARKS
Primary external antenna (Blade)	COBHAM (formerly CHELTON) antenna Model 2632-82	Could be supplied by ELTA under P/N 31908.
Alt. Primary external Antenna (Rod)	Chelton antenna Model 1327-82	Could be supplied by ELTA under P/N 11243.
Warm-up time	5 mn	15 mn required in ED-62A/RTCA DO-204A

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Minimum operating life ime at -20°C	24 H and 30 mn	Taking into account 1 self-test every 6 months and 5 years old batteries (24 hours required in C/S T.001)
PT Beacon output power (external Antenna acces / 50 Ω)	+ 37 dBm $\pm$ 2 dB	Burst transmission, in accordance with COSPAS-SARSAT latest requirements
Other parameters:		in accordance with COSPAS-SARSAT latest requirements
- Frequency - CW preamble - Repetition rate - Burst transmission duration - First Burst delay - Bit rate - Modulation - Short term stability - Medium term stability - Residual freq. Variation - Country code - Protocol	406.040 MHz $\pm$ 1 KHz 160 mS $\pm$ 1% 50 s $\pm$ 2.5s 440 or 520 ms $\pm$ 1% 50 s $\pm$ 2.5s. 400 Hz $\pm$ 1% Biphase-L $\pm$ 1 rd [$\pm$ 1 rd] Better than 2.10^{-9} Better than $\pm 10^{-9}$ Better than 3.10^{-9} Any, Selectable Any User, User Location, Standard Location, Selectable	modified at each burst short or long message, Selectable In accordance with ICAO/IMO Aeronautical only
C/S Type Approval N°	291	

4.5. Performance

The performances of the ELiTe ELT equipment in automatic fixed configuration conforms with EUROCAE ED-62A & RTCA DO-204A specifications (ELT) and RTCA DO-227 (internal battery).

The ELiTe ELT, in Automatic Fixed Configuration, complies with ETSO C126b, ETSO C142a requirements and is type approved by C/S.

4.6. Guaranteed weight

Max. 1600 g. For one ELiTe TRANSMITTER + one ELiTe AF-BRACKET + one ELiTe Coding Tag

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4.7. Overall dimensions

249.5 mm x 145.4 mm x 74.6 mm

4.8. Limitations for operating

- Susceptibility limitation for Cat.R in PM mode eight discrete frequencies between 981 MHz and 1,35 GHz, with worst case 93V/m instead of 150V/m :
 - 981.884 MHz / 123.1V/m
 - 1 GHz / 115.3V/m
 - 1.25893 GHz / 126.3 V/m
 - 1.28825 GHz / 99.1 V/m
 - 1.31826 GHz / 93.2 V/m
 - 1.34896 GHz / 96.2 V/m
 - 1.25893 GHz / 121V/m
 - 1.28825 GHz / 125.4 V/m
- Emission of Radio Frequency Energy 150KHz – 200MHz Conducted RF Emissions for Cat.H very low exceeding of 4 dB at 2.8MHz

4.9. Limitations for handling

None

4.10. Non ETSO functions

The list of non ETSO functions implemented in the ELiTe ELT in Automatic fixed configurationare:

- Actual location from internal GNSS receiver (internal navigation device) no safety effect
- Actual location from A/C ARINC 429 High speed data bus (external navigation device) no safety effect
- Provision Activation by discrete input “Pre-alert”
- Internal dual frequency (121.5 MHz -406.040 MHz) antenna
- External – internal antenna switching
- External – internal navigation device switching
- Strobe light
- LCD Display
- Embedded maintenance follow up functions (log)
- C/S identification RFID Tag
- Auto Armament function
- Embedded battery pack follow up (date of manufacture, expiry date, remaining capacity, number of self-test, cumulative distress transmission time)

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- ATA Spec 2000 RFID tag (Part identification)

4.11. Deviation from specification

None

4.12. Open problem report with user impact

Open Problem Report with user impact :

Antenna commutation :

- Root cause :

Test strategy and error in the software implementation

- Justification :

Case of multiple failures (external antenna failure with false distress during 4 minutes then distress stop and real distress after that). This is not an operational case.

Software OPR raised at system level because a system test is necessary to validate the modification.

- Modification Date :Next software version
- Criticity : OPR type 1B

4.13. Minor changes

The items listed here under are to be considered as minor changes if implemented for the ELiTe ELT in Automatic Fixed configuration:

- Additional new external antenna model
- New RCP with different behaviour or current consumption.
- Components obsolescence management

5 Documentation

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5.1. Safety/Failure analysis

FMEA (and Appendix)
Safety memorandum focusing on non rechargeable Lithium Battery

13E66065 version G
14E64027 version B

5.2. Quality control procedure

ELiTe ATS
ELiTe TRANSMITTER ATP
ELiTe TRANSMITTER upper part (Transmitting Pack) ATP
ELiTe AF-BRACKET ATP
ELiTe Battery Pack ATP

13E65797 version J
14E64621 version E
14E64623 version D
14E64625 version D
15E65612 version B

5.3. Maintenance and operation instructions

ACMM 25-60-15 ELiTe TRANSMITTER
ACMM 25-60-16 ELiTe AF-BRACKET
CMM 25-60-17 ELiTe Coding Tag

5.4. Instruction manual

User handbook 15E64259 issue A

5.5. Quality Configuration documentation

Configuration Index Documentation 13Q67047 version K (CID)
Including Master drawing records, safety procedure analysis and quality control procedure

5.6. Software documentation

Software criticality: D per ED-12C / DO-178C except GNSS software whose failure are not affecting the minor failure conditions defined in ETSO-C126b.

Software accomplishment summary	13E64430 version E	(SAS)
Software quality assurance plan	13E61849 version G	(SQAP)
Software configuration management plan	13E61848 version G	(SCMP)
Software configuration index	13E64428 version R	(SCI)

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Plan for Software Aspects of Certification 13E61842 version J (PSAC)

5.7. Hardware documentation

Hardware criticality: D per ED-80 / DO-254

Hardware accomplishment summary	16E29031 version B	(HAS)
Configuration management plan	14E60755 version D	(CMP)
Plan for Hardware Aspects of Certification	13E60397 version D	(PHAC)

5.8. Remarks

None

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6 Statement of compliance

Refer to ETSO qualification and qualification test report 16E27775 Rev B for details.

During the qualification test campaign, the following requirements have been applied:

- The circuits of the equipment under test were aligned and adjusted and no other adjustments were performed on the ELT after initiation of the tests.
- Connection of test instruments to the equipment under test was checked.
- All tests were performed with the proper impedance load values.

6.1. Environment Qualification Form as per ED-14G/DO-160G

* special per EUROCAE ED-62A or RTCA DO-204A

QUALIFICATION TEST DESIGNATION	ED-14G DO-160G SECTION	ED-14G / DO-160G CATEGORY	REPORT document. METHOD (S) Similarity (T) Test (A) Analysis
Temperature, altitude & decompression	4	special Eurocae ED-62A/DO-204A	(T) 16E27775 Rev B, § 5.1.1, 5.1.2 & 5.1.3
Ground Survival Low Temperature	4.5.1	equipment identified to category D2	(A) 16E27775 Rev AB, §5.1.1.5
Operating Low Temperature	4.5.2	equipment identified to category D2	(A) 16E27775 Rev B, §5.1.1.3
Ground Survival High Temperature	4.5.3	equipment identified to category D2	(A) 16E27775 Rev B, §5.1.1.6
Operating High Temperature	4.5.4	equipment identified to category D2	(A) 16E27775 Rev B, §5.1.1.4
Temperature variation	5	special Eurocae ED-62A/DO-204A	(T) 16E27775 Rev B, §5.3.3
Temperature variation	5.3.1	Equipment Tested to category B (ELT Op. Temp. +55°C; -20°C)	(T) 16E27775 Rev B, §5.4.8
Humidity	6	Equipment tested to category A	(T) 16E27775 Rev B, §5.2.1
Operational shocks and crash safety	7	special Eurocae ED-62A/DO-204A equipment tested to 500 g/4 ms and 100 g/23 ms	(T) 16E27775 Rev B, §5.2.7.2
Low Frequency Crash Safety	7.3	Equipment tested to Category E	(T) 16E27775 Rev B §5.4.7.2

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QUALIFICATION TEST DESIGNATION	ED-14G DO-160G SECTION	ED-14G / DO-160G CATEGORY	REPORT document. METHOD (S) Similarity (T) Test (A) Analysis
Constant acceleration (sustained)	7.3.3	Equipment tested to A/C Type 5, Test type R	(T) 16E27775 Rev B, §5.4.4
Vibrations	8	Equipment tested to category R curves C/C1 , category U2 curves F/F1 and category H per analysis (for fan blade loss)	(T) 16E27775 Rev B, §5.1.5
Explosion proofness	9	equipment tested to category A , A/C zone II	(T) 16E27775 Rev B, §5.1.15
Waterproofness	10	equipment tested to category RW	(T) 16E27775 Rev B, §5.2.2.2
Fluid susceptibility	11	N/A	-
Sand & Dust	12	N/A	-
Fungus resistance	13	N/A	-
Salt spray	14	equipment tested to category T	(T) 16E27775 Rev B, §5.2.6
Magnetic effects	15	equipment tested to category A	(T) 16E27775 Rev B, §5.1.6
Power input	16	equipment tested to category ZXX	(T) 16E27775 Rev B, §5.1.7
Voltage spike	17	equipment tested to category A	(T) 16E27775 Rev B, §5.1.8
Audio frequency conducted susceptibility-power inputs	18	equipment tested to category R	(T) 16E27775 Rev B, §5.1.9
Induced signal susceptibility	19	equipment tested to category CW	(T) 16E27775 Rev B, §5.1.10
Radio frequency susceptibility (radiated & conducted)	20	equipment tested to category R (with eight discrete limitations cf operation limitation) Note : ED-62A is category T (lower than R)	(T) 16E27775 Rev B, §5.1.11
Emission of radio frequency energy	21	equipment tested to category H (with Very low exceeding of 4 dB at 2.8MHz cf operation limitation)	(T) 16E27775 Rev B, §5.1.1.4
Lightening induced transient susceptibility	22	equipment tested to category A4C4	(T) 16E27775 Rev B, §5.1.1.2
Lightening direct effects	23	N/A	-
Icing Test	24	N/A	-

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QUALIFICATION TEST DESIGNATION	ED-14G DO-160G SECTION	ED-14G / DO-160G CATEGORY	REPORT document. METHOD (S) Similarity (T) Test (A) Analysis
Electrostatic Discharge Test	25	equipment tested to category A	(T) 16E27775 Rev B, §5.4.6
Flammability	26.9	Equipment tested to category C	(T) 16E27775 Rev B, §5.4.1
Flame	None	special Eurocae ED-62A/DO-204A	(T) 16E27775 Rev B, §5.2.10
Operating Life Duration	None	special Eurocae ED-62A/DO-204A	(T) 16E27775 Rev B, §5.3.1

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6.2. Approval

I, Pierre PIPARD, HEREBY CERTIFY, THAT THE INFORMATION CONTAINED IN THIS DECLARATION OF DESIGN AND PERFORMANCE COMPLIES WITH THE REQUIREMENTS OF THE TECHNICAL SPECIFICATIONS CALLED TO MEET ETSO C126b, ETSO C142a REQUIREMENTS AND IS MADE UNDER THE AUTHORITY OF ELTA. DEVIATIONS TO THE REQUIREMENTS IF ANY, ARE DECLARED HEREIN. WITHOUT WRITTEN AGREEMENT, I DECLINE ALL RESPONSIBILITY IN THE EVENT OF UNSATISFACTORY OPERATION OF THE EQUIPMENT BEYOND OPERATIONAL CONDITIONS AND LIMITATIONS INDICATED ABOVE.

	NAME	SIGNATURE	DATE
SUPPLIER	Pierre PIPARD		October 06 th , 2017
SUPPLIER (QUALITY ASSURANCE)	T. JEAN PART 21, PART 145, FAR 145 Quality Manager		October 06 th , 2017

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