

Certificate Holder: Thrane & Thrane A/S
Lundtoftegaardsvej 93D
DK-2800 Kgs.Lyngby
Denmark

Product Manufacturer: See Certificate Holder

Product Designation: SAILOR 4300 L-Band System

Product Description: Iridium Maritime Satellite System



BNetzA-bS-02/51-52

authorized by the German Government to act as Notified Body in accordance with the RE Directive 2014/53/EU of 16 April 2014.

Conformity Assessment:

Essential requirements	Examined documentation	Result
Safety RED, Article 3.1a	Technical documentation including test report	conform
Health RED, Article 3.1a	Technical documentation including test report	conform
EMC RED, Article 3.1b	Technical documentation including test report	conform
Radio Spectrum RED, Article 3.2	Technical documentation including test report	conform

EU Type Examination Certificate:

In accordance with Annex III of the European Council Directive 2014/53/EU on radio equipment, our opinion is that this equipment type complies with the essential requirements stated above.

Marking:

The product shall be marked with the CE marking as required in the Council Directive 2014/53/EU.

Annexes:

The certificate is only valid in conjunction with the following number of annexes: 1

Validity:

Conformity is provided unless changes/modifications have been done to the standard and/or assessed type of equipment.

Certificate Registration No.:

T818342F-01-TEC

CTC advanced GmbH

CE 0682

Saarbrücken

Authorized signature / title



Product Characteristics:

SAILOR 4300	consisting of	
Model	Description	Part no.
SAILOR 4352A	Above Deck Unit	404352A-00500
SAILOR 4338A	Below Deck Unit or Below Deck Unit 19" Rack	404338A-00500 404338A-00510

Hardware version:	rev B
Software version:	1.xx
Operating frequency:	1610 - 1626.5 MHz (Tx/Rx) 1559 - 1610 MHz (GPS receiver)
RF-output (peak):	45.4 dBm eirp
Type of modulation:	QPSK, 16APSK, SE-QPSK multi carrier
Antenna:	maritime antenna (gain: 8.7 dBi)
Operating temperature:	-25°C to +55°C
Power supply:	12 / 24 V DC (external)

Conformity Assessment:

Evaluated test reports

Essential requirements	Examined documentation
	EN 60950-1:2006/A11:2009/A1:2010/AC:2011/A12: 2011/A2:2013 EN 60950-22:2006/A11:2008; EN 62368-1:2014/AC:2015/A11:2017
Safety	-No.: 1-1493/16-01-02 issued by CETECOM ICT Services GmbH -No.: 1-5302/17-01-05, 1-5302/17-01-06, 1-5302/17-01-07, 1-5302/17-01-08 and 1-5302/17-01-09, all issued by CTC advanced GmbH
Health	EN 62311:2008 -No.: MPE calculation 99-160553-B issued by COBHAM
EMC	EN 60945:2002 (clause 4.4); IEC 60945:2002 (clause 8.2 – 8.7) Draft EN 301 489-1 V2.2.0; EN 301 489-19 V2.1.0 EN 301 489-20 V1.2.1; EN 301 843-1 V2.1.1 -No.: 1-5302/17-01-03 and 1-5302/17-01-14, all issued by CTC advanced GmbH -No.: 17-1-0101801T03a issued by CETECOM GmbH
Radio Spectrum	EN 301 441 V2.1.1; EN 303 413 V1.1.1 -No.: 1-5302/17-01-02-B issued by CTC advanced GmbH -No.: 99-161741-A and 99-160571-A, all issued by COBHAM -No.: EN 303 413 GUE Adjacent Frequency Band Selectivity u-blox MAX-M8Q-0_160617.docx issued by Verkotan Oy -No.: 17-1-0101801T01a issued by CETECOM GmbH

Miscellaneous:

TD according to the application