

**NB Identification Number 0680**

Authorized by the German government to act as Notified Body in accordance with Council Directive 2014/53/EU of 18 April 2014

Certificate Holder:	Astronautics Corporation of America 135 W Forest Hill Avenue Oak Creek, WI 53154-0121
Product Manufacturer:	Same as Certificate Holder
Product Designation:	AFS6460
Product Description:	The AFS6460, Connectivity Module (CM) contains four radios for wireless onboard and air-ground communication.

Essential Requirement(s)	Applied Specification(s)/Standard(s)	Result
Radio Spectrum RED, Article 3.2	EN 300 328 V2.1.1; EN 301 893 V2.1.1; EN 301 908-1 V11.1.1; EN 301 908-2 V11.1.2; EN 301 908-13 V11.1.2; EN 303 413 V1.1.1	conform
EMC RED, Article 3.1b	EN 301 489-1 V2.1.1; EN 301 489-17 V3.1.1; EN 301 489-52 V1.1.0	conform
Safety RED, Article 3.1a	EN 62368-1:2014 +A11:2017	conform
Health RED, Article 3.1a	EN 62311:2008	conform

Due to the absence of harmonized standards acc. to Council Directive 2014/53/EU at the time of the assessment at hand, this EU Type Examination Certificate is based on harmonized standards acc. to Council Directive 1999/5/EC and/or draft standards which haven't been harmonized so far but represent the latest state of standardization.

Type Examination Certificate:

Our opinion in accordance with Annex III of Council Directive 2014/53/EU on Radio Equipment Directive and the mutual recognition of their conformity is that the evaluation of the submitted documents related to the apparatus identified above complies with the requirement of that directive stated in the above scope. The scope of this evaluation relates to the submitted documents only.

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:

The validity of this certificate is limited to 5 years after the date of issue. Revisions of the applied standards and/or modifications of the approved type that may affect the conformity of the radio equipment with the essential requirements of Directive 2014/53/EU may also have an impact on the validity of this certificate.

Certificate Registration No.: **M20-0913-01-TEC**
CETECOM GmbH

Place, issue date
Essen, 2020-08-25

Authorized signature



BNetzA-BS-13/51-58

Product Characteristics:

HW Version: 278830-1

SW Version: 282306-0002

Accessories relevant to compliance:

LAN antenna < 4 dBi in 2.4 GHz band. VSWR < 1.7:1
< 3.8 dBi in 5 GHz band. VSWR < 1.7:1

LAN antenna cable type and minimum length at least 1 m of RG400 coaxial cable

UMTS / LTE part:

Operating Frequency Bands: UMTS (FDD I, III, VIII) EIRP: < 23 dBm
LTE (FDD 1, 3, 7, 8, 20) EIRP: < 23 dBm

Power Class: 3

WLAN part:

Operating Frequency Range: 2412-2472MHz EIRP: < 20 dBm
5150-5250MHz EIRP: < 23 dBm

Conformity Details:

Requirement	Standard(s), test report number & laboratory
Radio spectrum	<p>EN 300 328 V2.1.1; EN 301 893 V2.1.1; EN 301 908-1 V11.1.1; EN 301 908-2 V11.1.2; EN 301 908-13 V11.1.2; EN 303 413 V1.1.1</p> <p>-No.: EMC_ASTRO-002-20001_EN300328_WiFi by CETECOM Inc. 328 radiated emissions -No.: ER610401-01AC Rev. 01 by ICC 328 conducted -No.: EMC_ASTRO-002-20001_EN301893 by CETECOM Inc. 893 radiated emissions -No.: ER610401-01AN by ICC 893 conducted -No.: MP_008387REV1 by CETECOM Inc. 908-1 radiated emissions -No.: ER830105 by SPORTON 413 conducted -No.: MUS_SIERRA_1501_02 by 7 Layers 908-2-13 conducted RX -No.: MUS_SIERRA_1501_04 by 7 Layers 908-2-13 conducted -No.: MUS_SIERRA_1501_05 by 7 Layers 908-2 conducted band III</p>
EMC	<p>EN 301 489-1 V2.1.1; EN 301 489-17 V3.1.1; EN 301 489-52 V1.1.0</p> <p>-No.: EMC_ASTRO-002-20001_EN301489 by CETECOM Inc.</p>
Safety	<p>EN 62368-1:2014 +A11:2017</p> <p>-No.: 392951 by Nemko</p>
Health	<p>EN 62311:2008</p> <p>-No.: EMC_ASTRO-002-20001_CEMPE by CETECOM Inc.</p>

Miscellaneous:

- Product's Technical Documentation
