

Certificate of Construction Type

Nemko North America, Inc., operating as a Conformity Assessment Body (CAB ID Number: 218) with respect to Japan, hereby declares that the product detailed below has been granted type certification in accordance with the provisions of Article 38-24(1) of the Japan Radio Law (Law No. 131, 1950 and Amendments)

Certificate Number: CER215571

Certification Number: R 218-240466

Certificate Holder: Viasat Inc.
6155 El Camino Real
Carlsbad, CA 92009, USA

Manufacturer: Viasat Inc.
1725 Breckinridge Plaza
Duluth, GA 30096, USA

Model(s): GM-40 (Global Mantarray-40)

Product Description: Airborne Antenna

Type of Application: Original

Standards used for Testing: TELEC Characteristics test method for ESIM Mobile Earth Station
Article 1, Paragraph 3 of Article 15 of the Equipment Regulations

Test Report Number(s): REP088161-TRFWL, Issue date: April 14, 2025
REP081578-TRFWL, Issue date: February 24, 2025
REP035249-2TRFWL, Issue date: October 16, 2024
REP092621-TRFWL, Issue date: May 12, 2025

Antenna Information: Horn array, 40 dBi

Hardware Version: --

Software Version: --

Certificate Version: 1.0

Approved by



Vina Kerai, Certification Manager, TCB

Date: May 14, 2025

Annex to Certificate of Construction Type

Technical Characteristics

| Transmitter Type | Category of Specified Radio Equipment (Article 2 Paragraph 1) | Frequency Range (MHz) | Type of Modulation(s) | Occupied Frequency Bandwidth | Class of Emissions | Antenna (Transmit) Power |
|--------------------------------|---|-----------------------|-----------------------|------------------------------|--------------------|--------------------------|
| Earth Station in Motion (ESIM) | Item (28-2-4) | 29500–30000 | 8PSK, BPSK, QPSK | 0M78, 5M63, 12M5, 90M0, 180M | G7W | 31.6 W |
| Earth Station in Motion (ESIM) | Item (28-2-4) | 29500–30000 | 8PSK, BPSK, QPSK | 45M0, 90M0, 180M | G7W | 20 W |
| Earth Station in Motion (ESIM) | Item (28-2-4) | 29500–30000 | 8PSK, BPSK, QPSK | 22M5 | G7W | 15.9 W |
| Earth Station in Motion (ESIM) | Item (28-2-4) | 29500–30000 | 8PSK, BPSK, QPSK | 11M3, 45M0 | G7W | 10.8 W |
| Earth Station in Motion (ESIM) | Item (28-2-4) | 29500–30000 | 8PSK, BPSK, QPSK | 0M78, 7M05 | G7W | 10 W |
| Earth Station in Motion (ESIM) | Item (28-2-4) | 29500–30000 | 8PSK, BPSK, QPSK | 5M63 | G7W | 6.4 W |
| Earth Station in Motion (ESIM) | Item (28-2-4) | 29500–30000 | 8PSK, BPSK, QPSK | 12M5 | G7W | 1.1 W |
| Earth Station in Motion (ESIM) | Item (28-2-4) | 29500–30000 | 8PSK, BPSK, QPSK | 0M78 | G7W | 0.1 W |

Conditions of Validity

This certificate is limited to products which are equal to the one examined in the type-examination. The equipment must only be serviced by authorized personnel. There are no end user serviceable parts.

Labeling of Radio Equipment

The marking must be affixed to an easily noticeable section of the specified radio equipment. Note that additional information may be necessary if the device is also subject to a telecom approval. When the manufacturer (or holder of this certificate) is placing the product on the Japanese market, the product must be affixed with the following Specified Radio Equipment marking:



R 218-240466