CLAIMS

1. A radar system comprising a core module incorporating a radar transducer and ancillary components thereto, said core module having a major axis, the length of said core module along said major axis being two or more times as great a height or a width of said core module, said core module further comprising an accessory coupling in the vicinity of each extremity of said major axis, wherein each said accessory coupling comprises a structural mounting adapted to mate with a corresponding mounting on an accessory module.

2. The radar system of claim 1 wherein said accessory coupling further comprises an electrical coupling to said radar transducer and/or said ancillary components.

3. The radar system of claim 1 or 2 wherein said core module comprises two longitudinal load bearing members parallel to said major axis and situated either side thereof, said radar transducer being mounted on said longitudinal members.

4. A radar system of claim 3 wherein said radar transducer is mounted with respect to said load bearing members by means of an articulated mounting permitting the free orientation of said radar transducer in at least one axis through an angle of at least 75 degrees.

5. A radar system of claim 3 or 4 wherein said radar transducer is mounted with respect to said load bearing members by means of an articulated mounting permitting the free orientation of said radar transducer between a first non-operational position, and an operation position.

6. A radar system according claim 5 where the total height of the core module is maximally 150 cm when said radar transducer is in said first non-operational position.

7. A radar system of any of claims 2 to 6 wherein said longitudinal members define a core module base, the length of said core module base both being between 3.0 and 4.5m.

8. A radar system of claim7 wherein said core module further comprises a plurality of coupling points situated at the lower corners of said core module base, in conformity with the first, second, third, fourth or fifth edition ISO 1161 standard corner fitting specifications.

9. A radar system according to any preceding claim, said system further comprising an accessory module, comprising a structural mounting adapted to mate with said structural mounting of said core module such that the mechanical coupling thereby achieved is sufficient for the whole weight of said accessory module to be supported by said core module.

10. A radar system according to claim 9 where said accessory module comprises an accessory base, said accessory base comprising ISO standard coupling points compliant or compatible with the first, second, third, fourth or fifth edition ISO 1161 specifications situated at two or more of the lower corners of said accessory base, , for connecting said accessory base to ISO standard coupling points compliant or compatible with the first, second, third, fourth or fifth edition ISO 1161 specifications of a platform.

11. A radar system of claim 9 or 10 wherein said accessory coupling further comprises an electrical coupling to said radar transducer and/or said ancillary components, and wherein said accessory module contains a power generation unit, wherein said power generation unit is adapted to provide electrical power

to said radar transducer and/or said ancillary components via said electrical coupling.

12. A radar system of claim 9, 10 or 11 wherein said accessory module contains a communications unit, wherein said communications unit is adapted to provide electrical communications between said radar transducer and/or said ancillary components and a remote entity.

13. A radar system of any of claims 9 to 12 comprising a first said accessory module coupled at one extremity of said core module and a second said accessory module coupled at the other extremity of said core module.

14. A radar system of claim 13 wherein said core module and said first accessory module and said second accessory module together have substantially the floor dimensions of a first, second, third, fourth or fifth edition ISO 668 standard multimodal container.

15. A radar system of any preceding claim wherein said radar transducer and/or one or more said ancillary components are modular components releasably coupled to said core module, and/or one or more said ancillary components are modular components releasably coupled to said accessory module.

16. A radar system according to any of claims 7 to 15 where the height of the said core module base is less than 50 cm.

17. A radar system of any of claims 1 to 16, wherein said core module and a said accessory module are of substantially the same width, said radar system further comprising a first support bracket and a second support bracket, said first support bracket and second support bracket being positioned on either side of said core module with respect to said major axis, positioned at the

junction between said core module and said accessory module, and engaging mounting points of said core module and said accessory module so as to maintain said core module and said accessory module in a fixed spatial relationship.

18. A land based vehicle or trailer comprising a radar system according any one of previous claims.

19. The land based vehicle or trailer according to claim 18 wherein the combined height of the vehicle or trailer and the radar system is less than 2.59 m.

20. The land based vehicle or trailer according to claim 18 or 19 wherein the combined height of the vehicle or trailer and the radar system allows for Drive-On, Drive-Off transport by airplane, train or ship.