




THE UNITED KINGDOM VEHICLE APPROVAL AUTHORITY

COMMUNICATION CONCERNING APPROVAL EXTENDED OF A TYPE OF ELECTRONIC SUB-  
ASSEMBLY WITH REGARD TO REGULATION NO. 10.05



Approval No: E11\*10R05/01\*11764\*02

1. Make (trade name of manufacturer): Brigade Electronics Group PLC
2. Type and general commercial description(s): Main Model: MDR-644GW-1-CMR / MDR-644XX-X-XXX(XX)(XXX) Consisting of: 1 x MDR-644GW-DS / MDR-644XX-DS(XX)(XXX); 1 x MDR-644-1-MCU-CMR / MDR-644-X-MCU-XXX(XXX); 1 x SD-64GB-IND / SD-XXGB-IND(XXX); 1 x MDR-PWR-01 / MDR-PWR-XX(XXX); 1 x MDR-IO-02 / MDR-IO-XX(XXX); 1 x MDR-ANT-GPS-03 / MDR-ANT-GPS-XX(XXX); 1 x MDR-ANT-MOB-01 / MDR-ANT-MOB-XX(XXX); 1 x MDR-ANT-WIFI-01 / MDR-ANT-WIFI-XX(XXX); 1 x MDR-MOUSE-01 / MDR-MOUSE-XX(XXX); 1 x MDR-USB-B-02 / MDR-USB-B-XX(XXX). Optional Accessories: 1 x MDR-FFC-AI-01 / MDR-FFC-AI-XX(XXX); 1 x MDR-DMC-AI-01 / MDR-DMC-AI-XX(XXX); 1 x MDR-HWU-01 / MDR-HWU-XX(XXX); 1 x MDR-04RPC / MDR-XXRPC(XXX); 1 x MDR-RP-02 / MDR-RP-XX(XXX); 1 x MDR-CAN-01 / MDR-CAN-XX(XXX); Where the "X" can represent any character (0-9, A-Z or can be omitted) for any associated variant, bespoke system which can have software changes or customized settings or reduced component population.
3. Means of identification of type, if marked on the component: Adhesive labelling on the main assembly underneath the moveable storage unit
  - 3.1. Location of that marking: Bottom of moveable storage unit
4. Category of vehicle: Not applicable
5. Name and address of manufacturer:  
Brigade Electronics Group PLC  
Brigade House, The Mills Trading Estate  
Station Road  
South Darenth  
Kent  
DA4 9BD  
United Kingdom

6. In the case of components and separate technical units, location and method of affixing of the approval mark: Bottom of moveable storage unit
7. Address(es) of assembly plant(s):  
Room 101, Building 20  
Li Bauhinia Intelligent Manufacturing Centre  
No.105 Qingbin East Road  
Qingxi Town  
Dongguan City  
Guangdong Province  
Peoples Republic of China
8. Additional information (where applicable): See Appendix
9. Technical Service responsible for carrying out the tests: SGS UK Ltd
10. Date of test report: As before and technical letter 23 August 2024
11. No. of test report: As before and technical letter AUT327462/1
12. Remarks (if any): None
13. Place: BRISTOL
14. Date: 30 AUGUST 2024
15. Signature:  

16. The index to the information package lodged with the Approval Authority, which may be obtained on request, is attached.

C McCABE  
Chief Technical and Statutory Operations Officer

17. Reasons for extension:

Change of IC and like for like change of the core function. The IC has been changed due to lack of supply from component manufacturer. Minor PCB changes. Local PCB change for the HDD board applied to accommodate the circuit change.

**Appendix**

to type-approval communication form No. E11\*10R05/01\*11764\*02  
concerning the type-approval of an electrical/electronic sub-assembly under Regulation No. 10.05

1. Additional information:
  - 1.1. Electrical system rated voltage: 12 / 24 Volt DC Negative Ground
  - 1.2. This ESA can be used on any vehicle type with the following restrictions: Product must always use a negative ground.
    - 1.2.1. Installation conditions, if any:  
See installation instructions
  - 1.3. This ESA can be used only on the following vehicle types: Not applicable
    - 1.3.1. Installation conditions, if any:  
Not applicable
  - 1.4. The specific test method(s) used and the frequency ranges covered to determine immunity were: (Please specify precise method used from Annex 9):  
20 to 200MHz (BCI at 60 m-Amps), 200 to 2000MHz (Free field at 30 V/m).
  - 1.5. Laboratory accredited to ISO 17025 and recognized by the Approval Authority responsible for carrying out the tests: SGS UK Limited, United Kingdom.
2. Remarks: None