

MUNIC

100 Avenue de Stalingrad 94800 Villejuif, FRANCE

Date: May 31, 2022

Product Equality Declaration

We, MUNIC, declare on our sole responsibility for the product C4D-4MUSAB_V8 that we accept the component sources mentioned below and that there were tested for FCC compliance:

1. Product Information.

Model: C4D-4MUSAB_V8

FCCID: A6GC4D-4MUSABV8, originally granted on 12/06/2021

Hardware version: HC4D-4MUSAB_V8.02

The PCB was modified to add a new GNSS Chipset and footprints prints for additional components.

Modification of GNSS Chipset:

GNSS Chipset

Old chipset		New chipset	
Reference	Description	Reference	Description
U11	UBX-M8030 GNSS chip professional grade ROM SPG 3.01	U11	UBX-M10050-KB standard precision GNSS chip, SPG 5.10

GNSS Chipset associated components

Removed Components	C52, C53, C56, C57, L18, L19, C45, C46, C47, C49, R33, R36, U10, U12
Changed Components	C50, C51, C40, C41, C42, C55, FB1, L13, L16, L17
Added Components	C109, C111, C112, C113, C114, R161, R164

Additional footprints:

Additional components footprints	U6, C37, C38, C39, R25, R27, R26, U28, C118, C119, R26, U29, C120, C121, R26, R169, R168, C122, R166, R167, C116, C117, U22, U23
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Alternative Components

Battery Charger

a) Alternative 1

Description	Reference on schematic	Reference of associated component on schematic
1A Linear Li-Ion Battery Charger with Trickle Charge, 4.1V, no safety timer	U2	C11, C12, R3, R4, R6, R7

b) Alternative 2

Description	Reference on schematic	Reference of associated component on schematic
1-cell, 1-A, Li-ion battery charger with operation over JEITA and 100kΩ NTC	U24	C101, C102, Q44, R143, R144, R145, R147

c) Alternative 3

Description	Reference on schematic	Reference of associated component on schematic
800-mA linear battery charger for 1-cell Li-ion and LiFePO4	U25	C103, C104, R149, R150, R151, R153, Q44, R144

5V Boost

a) Alternative 1

Description	Reference on schematic	Reference of associated component on schematic
3.5-MHz High Efficiency Step-Up Converter	U3	C14, L7

b) Alternative 2

Description	Reference on schematic	Reference of associated component on schematic
2.5 MHz, 1 A, Fixed-Output Synchronous TinyBoost® Regulator	U26	C105, L7

CAN Transceiver

a) Alternative 1

Description	Reference on schematic	Reference of associated component on schematic
High-speed CAN transceiver with Standby mode and ±42V bus fault protection DFN package	U16	

a) Alternative 2

Description	Reference on schematic	Reference of associated component on schematic
CAN transceiver With VIO, -27/+40V IO protection and Standby pin SOIC package	U27	

If you have any question regarding the authorization, please don't hesitate to contact us.

Thank you!

Sincerely yours,

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