



unicore UM220-IV M0 Navigation and Positioning Module Evaluation Kit User Guide

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unicore UM220-IV M0 Navigation and Positioning Module Evaluation Kit



Product Information

The UM220-IV M0 EVK Suite is an evaluation kit designed by Unicore Communication, Inc. to test and evaluate the function and performance of the UM220-IV M0 module. This kit includes an EVK board, which is mainly used for user convenience, and interfaces such as a reset switch, antenna feed switch, and RF input connector. The product is intended for users with expertise in GNSS receivers.

PRODUCT Revision History

Version	Revision	Date
R1	Initial release revision	Jun. 2020
R1.1	Fix Typo	Jun. 2021

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Product Usage Instructions

To use the UM220-IV M0 EVK Suite, follow these steps:

1. Connect the antenna to the RF input connector located on the EVK board.
2. Use the reset switch (S1) to reset the module if needed.
3. Use the antenna feed switch (S2) to switch between internal and external antennas.

4. Refer to the uSTAR Introduction for more information on using the UM220-IV M0 module.

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Preface

This document contains the contents related to UM220-IV M0 EVK, and can be used in conjunction with uSTAR Introduction.

Audience

This document is intended to present an overview of UM220-IV M0 EVK. The audience is expected to possess the expertise on GNSS receivers.

overview

UM220-IV M0 evaluation board (hereinafter referred to as EVK board) is mainly used to test and evaluate the function and performance of UM220-IV M0 module for user convenience.

EVK Introduction

UM220-IV M0 EVK Suite is shown as follows:



Figure 2- 1 UM220-IV M0 EVK Suite

Interface

The interfaces of UM220-IV M0 EVK Suite are shown in the figure below, and the detailed description is shown in Table 3-1.



Figure 3-1 Interfaces of UM220-IV M0 EVK Suite

Table 3- 1 Interfaces on the EVK Board

Interface	Type	Description
S1	Reset switch	Reset the module by a jumper cap
S2	Antenna feed switch	Control the antenna feed on and off by a jumper cap
ANT	RF input connector	Antenna signal input
USB	Micro-USB connector	Power supply (+5V), and data communication
SD-card	SD-card socket	Install SD memory card
UART	Communication DB9 connector	Backup serial communication interface, 232 level

Indicator

- Table 4-1 lists indicators on the UM220-IV M0 EVK board.
- Table 4- 1 Indicators on the UM220-IV M0 EVK Board

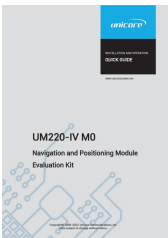
Indicator	Type	Description
L1	Power supply/1PPS indicator	The indicator lights up when the connector is powered, and flashes when the 3D positioning is valid.

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Documents / Resources

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References

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