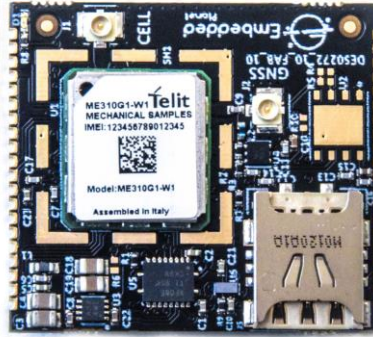


Chronos | Chronos Overview

3 Dec 2021 | v1.0.0

CONTENTS

1. INTRODUCTION.....	3
2. DOWNLOADS.....	3
3. SPECIFICATIONS.....	3
4. PINOUT	4
5. ATLAS: DEVELOPMENT PLATFORM	5
6. CUSTOMER SUPPORT.....	6
A. CONTACT EMBEDDED PLANET.....	6
B. COMPANY EMAIL.....	6



1. Introduction

Chronos is a small form-factor modem for embedded cellular applications. A mere 29.5mm x 33mm in size, the Chronos module can be mounted using a standard 2x10-pin modem header or the module's own castellated pads – perfect for streamlined integration into product designs. Chronos also supports GNSS for location tracking.

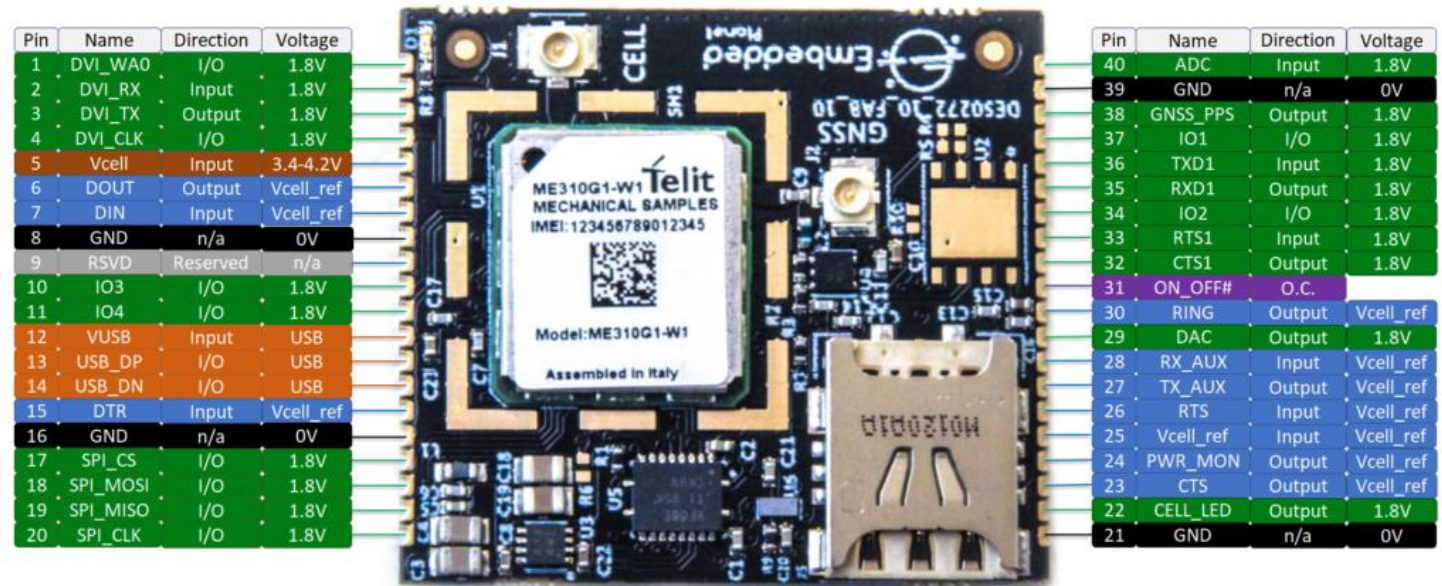
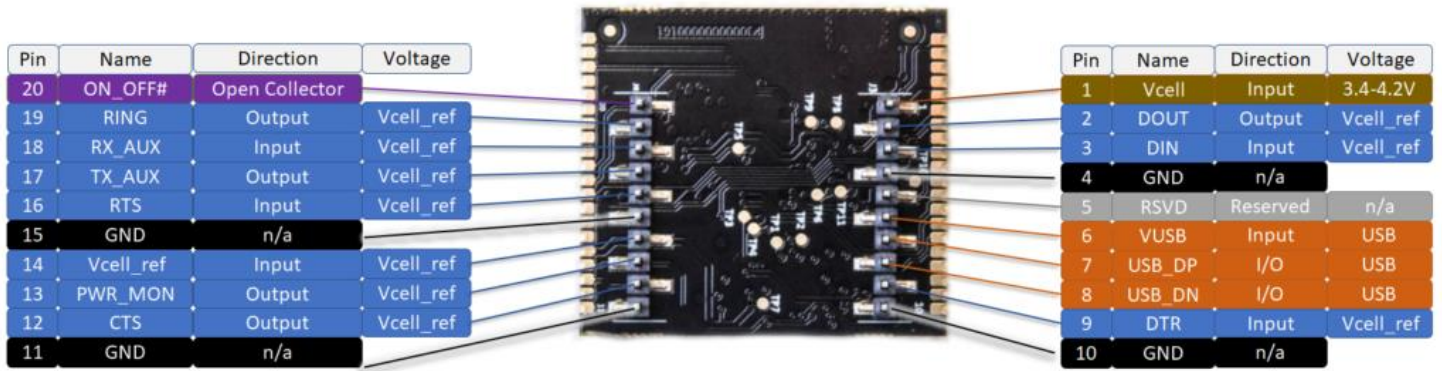
2. Downloads

All other documentation & downloads pertaining to the Chronos module can be found at: www.embeddedplanet.com/documentation

3. Specifications

Specification	Description
Cellular	Cat-M1 (1.4MHz) / NB-IoT (NB2 200kHz)
SIM Size	4FF / MFF2
Interface Options	Dual 10-pin header or SMT (castellated configuration)
Carrier Certifications	AT&T / Verizon
Dimensions	29.5mm x 33mm
Antenna Interface	Cellular: 1 x U.FL / GNSS: 1 x U.FL
Data Interface	UART, USB 2.0 HS
I/O	UART, SPI, GPIO, I ² S, ADC, DAC
Power	3.8VDC nominal (I/O: 1.8V - 5.5V)
Operating Temperature	-40°C to +85°C

4. Pinout



5. Atlas: Development Platform

Embedded Planet offers the Atlas development board for rapid prototyping with the Chronos modem. Featuring an on-board nRF52840 the Atlas can be used to interface with and control the Chronos modem module. These two devices together make a functional development platform capable of performing as a programmable connected device.

The Atlas provides further useful on-board development functions such as a GPIO-controllable RGB LED, a temperature sensor, a general-purpose pushbutton, a dedicated GPIO-controlled red LED, Arm Cortex debug header, micro-USB interface, Tectonic Edge™ interface from Embedded Planet, DF-12 footprint, and more.



6. Customer Support

Embedded Planet provides complete support for our product line. Embedded Planet technical support includes product assistance for EP firmware and hardware. Technical support can assist with setup, installation, configuration, documentation, product related questions, and expansion guidelines.

a. Contact Embedded Planet

Embedded Planet
4760 Richmond Road, Suite 400
Warrensville Heights, OH 44128
Phone: 216.245.4180
Fax: 216.292.0561
www.embeddedplanet.com

b. Company Email

Sales: sales@embeddedplanet.com
Information Requests: info@embeddedplanet.com
Technical Support: support@embeddedplanet.com