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Iridium 9603 manual

DCVSupply Input Voltage Ripple: < 40mV ppIdle Current (Peak): 156mAIdle Current (Average): 34mATransmit Current (Peak): 145mATransmit Current (Average): 1.3A Regressive Current (Average): 145mAReceive Current (Peak): 39mAReceive Current (Peak): 1.3A Regressive Current Average: 39mA
Message Transfer 156mA SBD - Average Flow: Message Transfer 158mA SBD - Average Power: < 0.8W More Information TYPEATELLITE M2M PRODUCTS USE TYPMARINE, VEHICULAR BRANDIRIDIUM MODEL9603N PART #SBDN9603B01 NETWORKIRIDIUM CONSTELLATION66 SATELLITES AREA USAGE100% GLOBAL SERVICEIRIDIUM SBD LENGTH31.5 mm WIDTH29.6 mm DEPTH8.1 mm WEIGHT11.4 g BANDA BAND APPLICATIONENVIRONMENT &AMP; SAFETY MONITORING, FLEET MANAGEMENT, PERSONNEL & ASSET TRACKING, REMOTE AUTOMATION & CONTROL POWER REQUIREMENTS +5V+/- OPERATING TEMPERATURE 0.5 V-40°C to 85°C (-40°F to 185°F) STORAGE TEMPERATURE-40°C to 85°C (-40°F to 185°F) CERTIFICATION COMPLIANCE, Iridium Global Coverage Map Iridium FCC is the only truly global provider of global satellite voice and data solutions with complete coverage of the Earth (including oceans, airways, and the Polar Region). Iridium mobile phones provide essential communication services to and from remote areas where no other form of communication is available. If you use the SBDRT command, and the modem appears to 'hang' when you issue the command, it may be due to the flow control configuration. The default status for RockBLOCK and RockBLOCK+ units has enabled flow control on the modem. When in 3-wire serial mode, the flow control must be turned off, which will ensure you get a response to the Request. Use AT& commands K0 at the beginning of your command sequence. This turns off the flow control, and should resolve the issue. Sleep signals are internally pulled high on RockBLOCK and RockBLOCK+ products, so you can leave them disconnected if you want the modem 'awake' all the time. To turn off the modem, drag the line to the ground. RockBLOCK uses the Iridium Satellite network. In particular, it uses an Iridium service called 'Short Burst Data' (SBD). There's some official info here. At the heart of RockBLOCK is the Iridium 9602 modem. RockBLOCK hosts the 9602 and provides the antenna, and its power supply requirements. This exposes the serial interface of the modem via USB (or directly - only the PCB assembly version). The complete documentation for modem 9602 can be found here: Iridium 9602 SBD Transceiver Product Developer Guide. RockBLOCK takes its power from the direct header connector, or as an alternative via an optional FTDI/USB adapter. If you are using a PCB assembly version with direct headers, your host must provide a minimum of 100mA @ 5V. 340 bytes from RockBLOCK. 270 bytes TO RockBLOCK. Testing shows that it generally takes about 20 seconds from power-up to successful transmission, with perfect sky views. With a very limited view, it may take a few minutes. You should be able to complete an Iridium SBD session approximately every 10 seconds, assuming a perfect view of the sky. Yes - there is a version of RockBLOCK available with a SMA connector (instead of a built-in antenna) that allows you to install an external Iridium antenna Almost certainly. If you have purchased an optional FTDI-USB adapter then you must install the FTDI driver. You can check on their website (, where you will find drivers for Linux, Mac, Windows, Android and more. RockBLOCK appears as a serial interface, and you can talk to it using a simple set of AT commands. It is expected that you will be able to integrate it into your own software with minimal effort. There's a Node.js library available and an Arduino library that you can get through the RockBLOCK page - There's also an excellent Python project for Raspberry Pi, which will make a great starting point for any Raspberry Pi user to find here - We're working on publishing some samples for other languages soon. Messages sent from RockBLOCK can be sent to the email address of your choice, or sent to your own web service as a simple HTTP POST. The message data will be hex encoded so that there are no character set issues. Full details of our web services are available in the Web Services Guide. You can create a simple HTTP POST to our web service. Messages are queued on satellite networks almost instantly, ready for RockBLOCK download (at your command). Yes You configure it correctly. Check the 9602 documentation for the 'Ring Alert' feature. Very! RockBLOCK+ is completely encapsulated so that at least IP68 (submersible for a long period of time). Just don't expect to send a message from underwater! RockBLOCK doesn't have a GPS chip in it. It doesn't seem that if you want a position report, you'll use an off-the-shelf GPS module with your solution, and get position data from it. However, it should be noted that with each Iridium transmission we get an approximate position report - this varies in accuracy from 100km to 1km, and therefore cannot be relied upon for highly accurate tracking, but we provide this information for you (along with approximate accuracy, 'CEP' at km) with your message. If you are looking for a dedicated satellite tracking device, then you may want to consider our RockSTAR products. Our billing is flexible, and lets you pay only when you use your device. Line leases are sold in one-month blocks, and credits are purchased in packs. If you have multiple RockBLOCK, credits are shared from the credit pool among all your devices' And you do not need to buy a separate credit plan for each device. Similarly, if only a few of your devices are used at any one time, you don't have to pay for line rent on the disused. Yes. Rock Seven Mobile Services has been an Iridium Partner since 2008. We've developed all sorts of products, but our most famous are the people behind YB Tracking. A quarter of the volume and half of Iridium 9602's footprint, the innovative Iridium 9603 transceiver combines global coverage of the Iridium satellite constellation with the low latency Iridium Short Burst Data Service to provide highly reliable satellite communication from pole to mast. With the smallest form factor of any commercial satellite transceiver available today, Iridium 9603 is ideal for space-restricted applications including monitoring, tracking, and alarm systems. The price is also very affordable, the price is a little more expensive than the Iridium 9602 previous generation. Providing two-way communication on an exceptional scale, the Iridium 9603 transceiver further expands Iridium's connected user base around the world. Mechanical Dimension Length: Width 31.5 mm; Depth 29.6 mm; Weight 8.1 mm; 11.4 g Operating Temperature Range Environmental Specifications: -40°C to +85°C Operating Humidity Range: 75% Temperature Range RH Storage: -40°C to +85°C RH Storage Temperature Range: -40°C to +85°C Storage Moisture Range 85°C: _RH RF Interface Frequency Range 93 % : 1616 MHz: TDD (Duplex Domain Time) Input/Output Impedance: 50 ohms Multiplexing Method: TDMA Power Input/FDMA DC Input Voltage Supply Range: 5.0V+/-5V DC Supply Ripple Input Voltage: < 40mV pp Idle Current (Peak): 156mAIdle Current (Average): 34mA Transmit Current (Peak): 1.1.13A Current (Average): 39mA Receiving Current (Peak): SBD 156mA Message Transfer - Average Flow: SBD 158mA Message Transfer - Average Power: < 0.8W BrochureIridium 9603 - Brochure (ENG)Jan 17 , , KB Iridium 9603 - Brochure (RUS)Jan 17 , 2018.42 MBJan 17 , 2018.65 MB Iridium SBD - Brochure (CHN)Jan 17 , 2018.74 MB Iridium SBD - Brochure (ENG)Jan 17 , 2018.21 MB Iridium SBD - Brochure (RUS)Jan 17 , 2018.65.11 KB Case StudyCase Study: Coordinating Disaster Relief After Flooding in CanadaSep 22, 2018.47 MB Case Study: Iridium Polar Research Solutions Study 17 , 2018.16.5 MB Case Keeping Fishing Vessels in ComplianceOct 12, 2020.163.14 KB Certification - RegulatoryApr 16 , 2020.107.48 KB Iridium 9603 - DECLARATION OF EC ConformityJul 19, 2022.52 KB Iridium 9603 - FCC Part 25 GrantJul 17 , 2012.109.88 KB Iridium 9603 - Canadian Industry CertificateJuly 26, 2012.76.72 KB Iridium 9603N - DECLARATION OF EU ConformityApr 08, 2020.110.08 KB Product: Iridium 9603Iridium 9603N - UE Apr Type Exam Certification 08, 2020.618.67 KB KB

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