G-M1A021

RS-232 / 422 / 485 Converters

(Isolation Protection & RS-232 / 422 / 485)

Main Features

◎ USB to RS-232 / 422 / 485 Converter

◎ Plastic / Aluminum Housing

◎ Isolation Protection 2500 VDC

◎ Serial Interface RS-232 /485 / 422
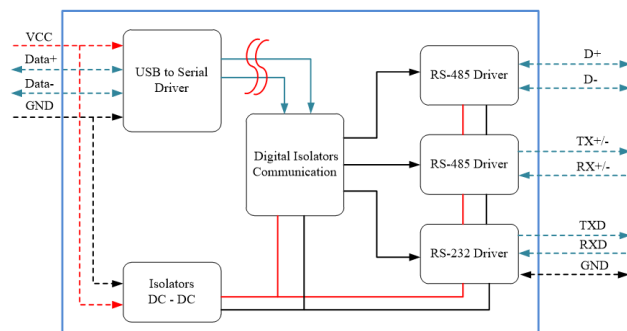
Introduction

Connect RS-232 / 422 / 485 devices to a USB port with 2500 VDC isolation protection. The G-M1A021 is an ideal application which includes a high retention USB interface, removable terminal and LEDs to indicate data flow. Advanio converter can help industries to contribute networks completely.
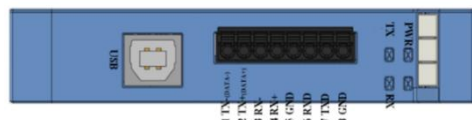
Specification

Model Name		G-M1A021
Specifications		
Housing Option		Plastic housing / Aluminum housing
USB		USB 2.0
Serial Interface	**RS-232**	The RS-232, RS-422 and RS-485 cannot be used simultaneously
	RS-422	• TXD, RXD, GND
	RS-485	• TX+, TX-, RX+, RX- •TX+(DATA+), TX-(DATA-)
RS-422/485 Transmission Distance		Max.1200 m at 9.6 kbps; Max. 400m at 115.2 kbps
Speed		From 300 to 115.2 k
Connection	RS-232/422/485	Removable 8-Pin Terminal Block
	USB	Type B
MTBF (Conditions: Temperature: 25ºC)		
Failure Rate		117.103580 (FITs)

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MTBF	8,539,449 (Hours)
Power	
Input Voltage Range	+5 VDC from USB
Mechanical	
Casing	PC
Flammability	UL-94 Fire-proof level
Dimensions (W x H x D)	100mm x 21mm x 107mm
Installation	DIN-Rail
General	
Isolation Protection	2500 VDC
Operating Temperature	-10~70 °C (14~158 °F)
Storage Temperature	-25~85 °C (-13~185 °F)
Humidity	5~95 %RH, non-condensing
Driver Supported	Windows 98, 98SE, ME, 2000, Server 2003, XP and Server 2008, Windows 7 32,64-bit, Windows XP and XP 64-bit, Windows Vista and Vista 64-bit, Windows XP Embedded, Windows CE 4.2, 5.0 and 6.0 Linux 2.4 and greater

The G-M1A021 Block Diagram

Pin Assignment

RS-485 Pin Define:

TX+(DATA+) and TX-(DATA-)

RS-232 Pin Define:

TXD、RXD and GND

RS-422 Pin Define:

TX+(DATA+) 、 TX-(DATA-)、RX+ and RX-