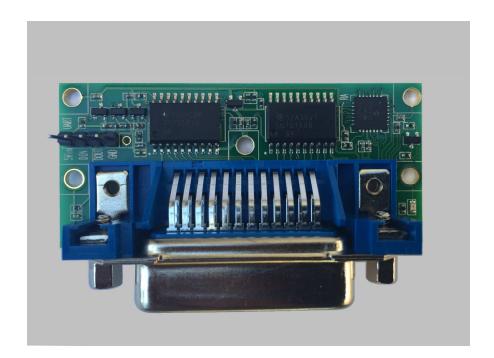
GU02 GPIB TO UART MODULE DATASHEET



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1.0 GENERAL INFORMATION

1.1 GU02 GPIB to UART Module Introduction

GU02 GPIB to UART Module is powerful, friendly and low cost GPIB device interface adapter module. It is designed for equipment which lacks access by GPIB controller. The module GPIB device interface can be a Listener and Talker. The UART side is a standard UART interface and has data speed from 300bit to 115.2 kbit. The GPIB interface is compatible with IEEE488.1 and 488.2. It is compatible with the required GPIB common commands. If you want your machine to equip a GPIB interface, just install GU02 module then the machine will have a GPIB interface.

1.2 Mechanical Details

Fig. 1 shows the module mechanical details (top view). Fig. 2 shows the module dimension side view. The module has a small size and easily fits into equipment such as oscilloscope, power supply, etc.

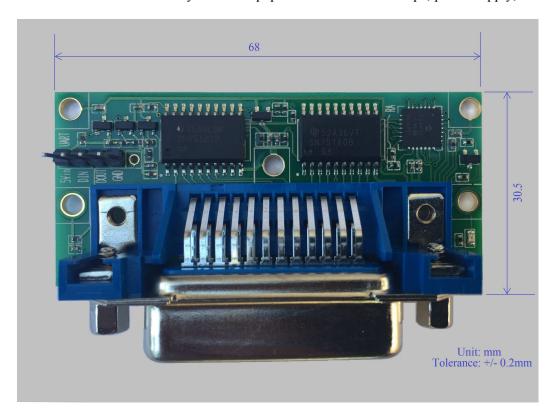


Fig. 1 GPIB to UART Module Mechanic Size (top view)

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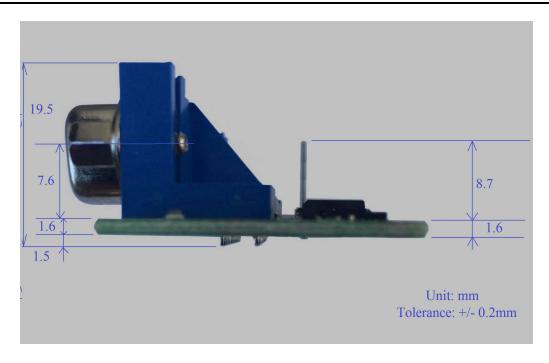


Fig. 2 GPIB to UART Module Mechanic Size (side view)

1.3 Connections

The module can be connected as a GPIB device interface to UART direct conversion. If you have a UART port, you will be added GPIB feature on your equipment.

1.3.1 GPIB Device Interface to UART Adapter

Fig. 3 illustrates GPIB device interface to UART adapter connection. If you have a UART interface on your microcontroller or other UART device, you could have a GPIB device interface by installing GU02 GPIB device interface to UART adapter, connecting the two UART ports by regular jumping wires.

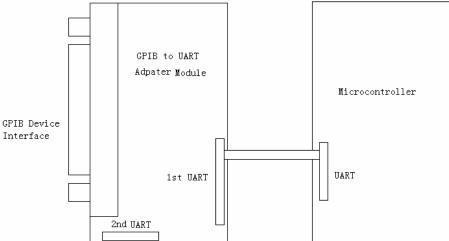


Fig.3 GPIB Device Interface to UART adapter connection

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2.0 GU02 GPIB DEVICE INTERFACE MODULE SPECIFICATIONS

2.1 Absolute Maximum Rating

1. DC Power Supply Voltage

2. Storage temperature

3. Maximum power consumption

4. Operating temperature

6.5V

 $-40 \sim 150^{\circ}$ C

0.8W

 $0 \sim 70^{0} \text{C}$

2.2 The Module Recommended Specifications

Recommendation operating conditions

Port	Parameter		Min	Тур.	Max	Unit
	DC supply voltage		4.75	5	5.25	V
Module	Temperature		0		70	0C
Module	Power consumption (1)	GPIB transceiver On	0.6		0.78	W
	DC= 5V	GPIB transceiver Off	0.1		0.12	VV
	High level input voltage		2		5	V
	Low level input voltage		0		0.8	V
GPIB	High level output current	Drive current			-5.2	mA
Interface	Low level output current	Sink current			48	mA
UART	High level input voltage		2.5		5	V
interface	Low level input voltage		0		1.5	V
	High level output current (2)	5V UART			-3	mA
	Low level output current (2)	5V UART			5	mA

Note:

1. When no GPIB controller is connected to the module, the GPIB transceiver is always powered off so as to save power. If a GPIB controller is plugged in the GPIB device interface module, the GPIB transceiver will be powered on automatically.

UART data speed

UART data speed is fixed since it is control port for the module. The default data speed is 9600bit. Data speed at UART port can be customized to followings bits upon request, 300, 600, 1200, 2400, 4800, 9600, 19200, 38400, 57600, 115200.

GPIB address can be set from $0 \sim 30$ by module user.

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3.0 GU02 GPIB Device Interface to UART Module operation

3.1 GPIB Device Interface to UART Module

If you use one of our standard modules for product development, please follow the instructions in the "GU02 GPIB Device Interface to UART Module User Manual".

The module is for company product development. The company, who is interested in the module, please contacts LQ Electronics Corp.

Email: sales@lqelectronics.com or Tel: 1-408-6343078

Non-Disclosure Agreement is required to sign by the purchaser or user when request/purchase the module sample and the User's manual.

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