



### Main Features

- Support 16bit GPIO connector & dual port UART Communication
- PCIe x 1 link, dual simplex, 2.5 Gbps in each direction
- Data read/write 32-bit operation up to 25 Mbps serial data rate
- 16550 compatible register set, 256-byte TX and RX FIFOs Programmable TX and RX Trigger Levels
- TX/RX FIFO Level Counters, Fractional baud rate generator
- Automatic RTS/CTS or DTR/DSR hardware flow control with programmable hysteresis
- Software compatible to XR17C15x, XR17D15x, XR17V25x PCI UARTs

### Product Overview

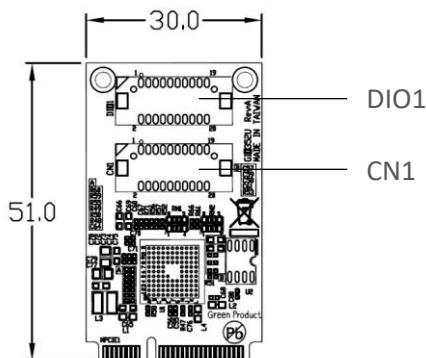
Cadmus's GIO352U is Mini PCIe modules that is ideal for adding extra DIO and serial port capabilities to any system with minimal increase in overall system size and power consumption.

GIO352U is offering 8 In/8 Out DIO and dual UART port with optional kit for dual switchable RS-232/422/485 serial communication. The wide operating temperature and latching cable allow these modules to be used in harsh environments. The compatibility with a large variety of popular operating system allows these boards to be easily integrated into a wide array of all kinds of systems.

### Specifications

Module Name	GIO352U
Module Type	mPCIe to 16bit GPIO and dual port UART module
Form Factor	Mini PCIe full size
Input interface	PCI Express 2.0
Output Interface	16 bit Digital I/O and dual UART port
Output Connector	Two 2*10 pin box header
Power input	On board 3.3V
Dimensions	51 x 30(mm)
Transfer speed	Data read/write 32-bit operation , up to 25 Mbps serial data rate
Compatible Operating System	Windows 98/2000/2008/ME
	Windows XP/7/8/10/ CE
	Linux 2.4
Working Temperature	-40°C to 85°C

## Dimension



## Pin definition

### I/O Port PIN Define Setup (DIO 1)

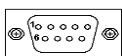
Pin	DIO	Pin	DIO
P1	IO4	P2	IO0
P3	IO5	P4	IO1
P5	IO6	P6	IO2
P7	IO7	P8	IO3
P9	+3.3 V	P10	GND
P11	IO12	P12	IO8
P13	IO13	P14	IO9
P15	IO14	P16	IO10
P17	IO15	P17	IO11
P19	+3.3 V	P18	GND

### UART PIN Define Setup (CN1)

Pin	UART	Pin	UART
P1	DSR0	P2	DCD0
P3	RTS0	P4	RXD0
P5	CTS0	P6	TXD0
P7	RI0	P8	DTR0
P9	VCC3	P10	GND
P11	DSR1	P12	DCD1
P13	RTS1	P14	RXD1
P15	CTS1	P16	TXD1
P17	RI1	P17	DTR1
P19	VCC3	P18	GND

### Optional S200UK Kit (Dual COM port kit for CN1)

#### COM1 and COM2



Pin	RS232	RS485	RS422	Dual RS422
1	DCD	DATA-	TX-	TX-
2	RXD	DATA+	TX+	TX+
3	TXD		RX+	RX+
4	DTR		RX-	RX-
5	GND	GND	GND	GND
6	DSR			RTS-
7	RTS			RTS+
8	CTS			CTS+
9	RI			CTS-

### Jumper Setting



#### JP1~JP3 for COM1

	RS232	RS485	RS422	Dual RS422
JP1	1-2	2-3	1-2	2-3
JP2	2-3	1-2	1-2	2-3
JP3	2-3	2-3	2-3	1-2

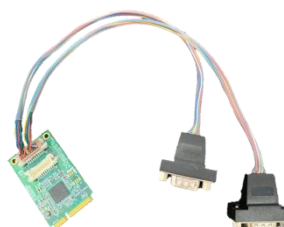
#### JP4~JP6 for COM2

	RS232	RS485	RS422	Dual RS422
JP4	1-2	2-3	1-2	2-3
JP5	2-3	1-2	1-2	2-3
JP6	2-3	2-3	2-3	1-2

## Ordering Information

### GIO352U

- Mini PCIe to 8 In/8 Out DIO and dual port UART module with 25cm cable DB9\*2 for DIO1
- Optional S200UK kit for UART to dual RS232/422/485 by jumper setting



### Optional S200UK Kit

