



CREATIVE MICRO SYSTEMS

DOC NO: 322 214
FORMAT NO: FC/DE/58
DATE: 16-11-2019

MYC-Y6ULG2 PROCESSOR DETAILS FOR RTU2000

SL.NO	PURPOSE	SIGNAL NAME	GPIO NUMBER	APPLICATION	ACTION
1	USB Port for Debugging	UART1_TXD	-	DEBUG UART	CONSOLE PORT
		UART1_RXD	-		
2	DEFAULT CONFIG SWITCH	DEFAULT_SW	GPIO1.IO02	GPIO INPUT FOR DEFAULT SWITCH	GPIO INPUT = LOW, SWITCH PRESSED GPIO INPUT = HIGH, SWICTH RELEASED
3	WATCHDOG PULSE	WDT_IN	GPIO1.IO01	GPIO OUTPUT WDT INPUT	WITHIN 60S MIN ONE HIGH-TO-LOW & LOW-TO-HIGH SHOULD BE APPLIED FROM THIS PIN TO WDI
4	CARD RESET	CARD RESET	GPIO1.IO09	GPIO OUTPUT FOR RESETING ALL IO CARDS	GPIO OUTPUT = LOW, FOR 100 ms AND THEN MAKE IT HIGH TO RESET ALL IO CARDS
5	POWER FAILURE OUTPUT	PFO	GPIO1.IO03	GPIO INPUT POWER FAILURE INDICATION	GPIO INPUT = LOW, POWER FAILURE DETECTED GPIO INPUT = HIGH, NO POWER FAILURE
6	RUN LED	RUN_LED	GPIO5.IO01	GPIO OUTPUT FOR RUN LED	GPIO OUTPUT = LOW, PROCESS STOPS GPIO OUTPUT = HIGH, PROCESS STARTED
7	USB FAULT	USB_FLT	GPIO5.IO03	GPIO INPUT FOR USB FAULT DETECT	GPIO INPUT = LOW, USB FAULT DETECTED, THEN MAKE USB POWER ENABLE TO LOW AND DISPLAY USB FAULT DETECTED GPIO INPUT = HIGH, NO USB FAULT
8	USB POWER ENABLE	USB_PWR_EN	GPIO5.IO02	GPIO OUTOUT FOR USB POWER ENABLE	GPIO OUTPUT = LOW, USB POWER DISABLE GPIO OUTPUT = HIGH, USB POWER ENABLE
9	MODEM INTERFACING AND CONTROL SIGNALS	SIM SEL	GPIO3.IO07	GPIO OUTPUT FOR SELECTING SIM1/SIM2	GPIO OUTPUT = LOW, SIM2 SELECTED GPIO OUTPUT = HIGH, SIM 1 SELECTED
		MDM PWR ON	GPIO3.IO22	GPIO OUTPUT FOR MODEM POWER ON/OFF	GPIO OUTPUT = LOW, MODEM POWER OFF GPIO OUTPUT = HIGH, MODEM POWER ON
		REG ON	GPIO3.IO21	GPIO OUTPUT FOR MODEM REGULATOR ON/OFF	GPIO OUTPUT = LOW, MODEM REGULATOR OFF GPIO OUTPUT = HIGH, MODEM REGULATOR ON
		SIGNAL STRENGTH 1	GPIO3.IO20	GPIO OUTPUT FOR SIGNAL STRENGTH LED 1	GPIO OUTPUT = LOW, SIGNAL STRENGTH LED ON GPIO OUTPUT = HIGH,SIGNAL STRENGTH LED OFF
		SIGNAL STRENGTH 2	GPIO3.IO19	GPIO OUTPUT FOR SIGNAL STRENGTH LED 2	
		SIGNAL STRENGTH 3	GPIO3.IO18	GPIO OUTPUT FOR SIGNAL STRENGTH LED 3	
		SIGNAL STRENGTH 4	GPIO3.IO17	GPIO OUTPUT FOR SIGNAL STRENGTH LED 4	
10	CAN BUS 1	CAN1_TX	GPIO3.IO13	CAN BUS FOR IO CARD COMMUNICATION	
		CAN1_RX	GPIO3.IO14		
11	CAN BUS 2	CAN2_TX	GPIO3.IO15	CAN BUS FOR CPU CARD COMMUNICAION	
		CAN2_RX	GPIO3.IO16		
12	USB PORT 1	USB_OTG1_DP	-	USB PORT TO USB CONNECTOR	
		USB_OTG1_DN	-		
13	USB PORT 2	USB_OTG2_DP	-	USB PORT FOR MODEM INTERFACING/USB TO UART(RS232 FULL HAND SHAKING)	
		USB_OTG2_DN	-		
14	USART2 INTERFACING	UART2_TXD	-	RS232, RS485 2 WIRE MODE	
		UART2_RXD	-		
		UART2_CTS	-		
15	USART3 INTERFACING	UART3_TXD	-	RS232, RS485 2 WIRE MODE	
		UART3_RXD	-		
		UART3_CTS	-		
16	UART4 INTERFACING	UART4_TXD	-	RS232, RS485 2 WIRE MODE	
		UART4_RXD	-		
17	RTC THROUGH I2C(DS1307)	I2C3_SDA	GPIO3.IO05		
		I2C3_SCL	GPIO3.IO06		
18	WDT JUMPER SETTINGS	Reference in PCB "J4"		SHORT	WDT Enabled (DEFAULT)
				OPEN	WDT Disabled
19	SD Card Interface	SD Card			
Prepared By			Verified By		Approved By
Sign:			Sign:		Sign:
Dtae:			Date:		Date: