

wireless made easy

Bluetooth wireless Plug In module Class2 10m Range

3.3V or 5V power supply

Data communication Serial 5V Uart Serial 3.3V Uart

N.8 IO signals

Standard or custom Firmware

OEM version on request



Description	The UARTDNG101 is a professional, slim, wireless module reation in brand new or existing electronic products.				
	Based on CSR (regulator	Chipset has PCB inverted F antenna and 3,3 voltage			
Applications	UARTDNG101 allows you to cut the cables using wireless com nication with PC, Pda, Mobile phone				
		integration in microprocessor systems without ope- ince it doesn't need drivers to work.			
	Industrial CNCMedical devices				
	 Fitness Machines Professional GPS systems Telemetry systems Sensors 				
	Your application				
Mechanical and electrical	Dimensions Connector Power supply Current	44 X 32 X 3 mm 28 pin, pitch 2.54m, male pinstrip 5V or 3.3V 80 mA (Max on RF burst)			

Eikon srl	Address	Telephone and Fax
	Via Borgognina 5 61030 Lucrezia (PU) Italy	T +39 0721.877365 F +39 0721.897679 M +39 335.442030

email info@eikonsite.it Web www.eikonsite.it

Internet





Pin assignment and description

Pin	Name	In Out	Description		
1	GND	In	Ground (0V)		
2	+3.3V	In	Input (or regulated output if there's power supply on Pin 3		
3	+5V	In	Input (or not connected if there's power supply on Pin 2)		
4	Reset	In	Reset the module		
5	MISO	Out	SPI programming MISO signal		
6	CSB	In	SPI programming CSB signal		
7	CLK	In	SPI programming CLK signal		
8	MOSI	In	SPI programming MOSI signal		
9	UART_CTS_R	In	Input UART CTS +3.3V		
10	UART_TX_R	Out	Output UART TX +3.3V		
11	UART_RTS_R	Out	Output UART RTS +3.3V		
12	UART_RX_R	In	Input UART RX +3.3V		
13	NC	-	NC		
14	UART_TX_5	Out	Output UART TX +5V		
15	UART_RTS_5	Out	Output UART RTS +5V		
16	NC	-	NC		
17	PCM_OUT	Out	Audio PCM Output		
18	PCM_SYNC		Audio PCM Sync		
19	PCM_IN	In	Audio PCM Input		
20	PCM_CLK		Audio PCM Clock		
21	PIO7	In/Out	Digital I/O #7 (Firmware defined)		
22	PIO6	In/Out	Digital I/O #6 (Firmware defined)		
23	PIO5	In/Out	Digital I/O #5 (Firmware defined)		
24	PIO4	In/Out	Digital I/O #4 (Firmware defined)		
25	PIO3	In/Out	Digital I/O #3 (Firmware defined)		
26	PIO2	In/Out	Digital I/O #2 (Firmware defined)		
27	PIO1	In/Out	Digital I/O #1 (Firmware defined)		
28	PIOO	In/Out	Digital I/O #0 (Firmware defined)		

Power Connect Power supply (5V or 3.3V) and GND

- Serial For UART +5V system : connect output signals UART_RTS_5 (if needed) and UART_TX_5. Connect input signals UART_CTS (if needed) and UART_RX (these pins are 5V tolerant). For UART +3.3V system : connect output signals UART_RTS (if needed) and UART_TX. Connect input signals UART_CTS (if needed) and UART_RX.
- 8 IO pins are available. These pins can be used to turn on/off external devices, to send informations to a microprocessor, to turn on led, buzzer...
 These pins are firmware controlled
- **SPI** These 4 signals are used for firmware upgrade

Eikon srl	Address	Telephone and Fax	Internet
	Via Borgognina 5 61030 Lucrezia (PU) Italy	T +39 0721.877365 F +39 0721.897679 M +39 335.442030	email info@eikonsite.it Web www.eikonsite.it





Electrical Current Consumptions (Power supply 3,3V) SCO connection HV3 (1s interval sniff mode) (Slave) 28 mA SCO connection HV1 (Slave) 53 mA ACL data transfer 115.2kbps UART (Master) 15 mA ACL connection, Sniff Mode 40ms interval, 38.4kbps UART 4 mA ACL connection, Sniff Mode 1.28s interval, 38.4kbps UART 0.5 mA Parked Slave, 1.28s beacon interval, 38.4kbps, UART 0.6 mA Deep Sleep Mode 15 uA Peak current during RF burst 80 mA						
	Temperature Ran Storage Operation	ge _40°C +105 _40°C +105				
Mechanical drav				4	28 mm	>
		ſ		1 2	ВТ	28
		44 mm		3 4 5 6 7 8 9	M o d u I e	26 25 24 23 22 21 20
				10		19
		L L		11		18
				12		17
				13		15

Order informations

To order UARTDNG101 please send us a description of your system and we'll suggest you the best firmware solution.

We can ship UARTDNG101 with Male Pinstrip connector or without any connector (For direct wire soldering)

Custom hardware version are available under request.

Firmware on UARTDNG101 can be updated using our DEVBOARD

Contact us directly or contact our local reseller

Eikon srl	Address	Telephone and Fax	Internet
	Via Borgognina 5 61030 Lucrezia (PU) Italy	T +39 0721.877365 F +39 0721.897679 M +39 335.442030	email info@eikonsite.it Web www.eikonsite.it