iDTRONIC

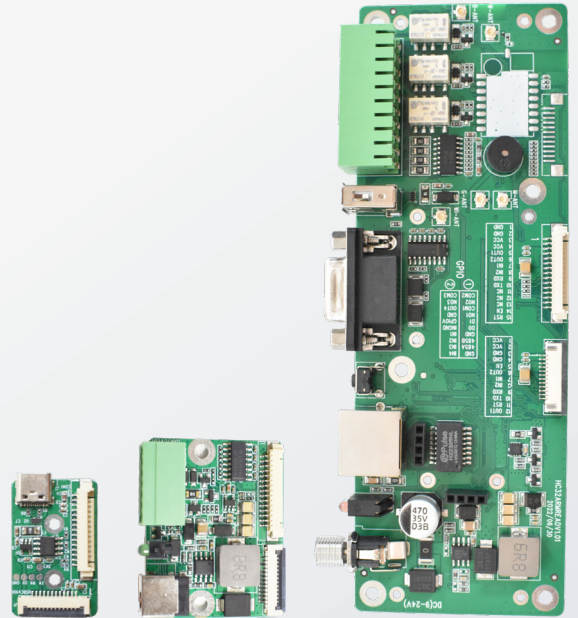## Embedded UHF Interface Boards
B100 / B200 / B900

PRODUCT DESCRIPTION

The iDTRONIC EMBEDDED UHF INTERFACE BOARDS are designed for easy RF module testing and assembly of complete machines. The product series adopts an industrial-grade design. A variety of modules, such as M600, M620, M630, M650, M670 and M690 can be directly connected to the board.

Standard communication interfaces such as USB Type-C, RS232 and TCP/IP are provided. These boards are convenient for evaluating the performance of RF modules and can be combined with a shell to make a fixed reader with compact structure, convenient installation, and stable performance, suitable for various industrial applications.

The interface boards also facilitate testing of GPIO operations, reset, power-on control, etc. The M100 is powered by USB, while the M200 and M900 are powered by 9-24V. (POE additionally only for M900 (802.3at/af)).

iDTRONIC's clients can quickly evaluate the performance of RF modules thanks to these boards, and develop their own products based on open-source information.

APPLICATIONS

- **RFID UHF Module Testing**
- **Electronics Development**
- **Production / Manufacturing**

FEATURES

- **Communication Interfaces: USB (2.0, Type C), RS232 and Ethernet**
- **GPIO Ports**
- **IP Reset Button**
- **LED Power / Status Indicator Lights**
- **12-Pin FPC or 15-Pin Ribbon Connectors**

CHIP OPTIONS

- **UHF**

TECHNICAL DATA

	B100	B200	B900
GENERAL SPECIFICATIONS			
Description	Embedded UHF interface Board B100	Embedded UHF interface Board B200	Embedded UHF interface Board B900
Dimensions	35 × 22 × 4.6 mm	35 × 45 × 11.6 mm	160 × 64 × 19.2 mm
Weight	3.6 g	14 g	79.8 g
ELECTRICAL SPECIFICATIONS			
Power Supply	USB Type-C 5V	9-24V with standard adapter (12V/3A)	9-24V with standard adapter (12V/3A) POE power supply (compatible with 802.3af or 802.3at standard)
Power Consumption	0.5W during operation of the single board	0.5W during operation of the single board	Equipped with SIM7400, standby is 1.76W, operation is 16.2W; Single board is 0.7W during operation. POE power supply capacity: Using a 100-meter ultra-five-category network cable, different types of POE switches have deviations. Adopt 803.at method for power supply, the maximum load carrying capacity is 25.1w (11.93V/2.1A).
Communication Interface	USB (9600 - 921600 bps)	RS232 (9600 - 460800 bps)	10M/100M adaptive Ethernet, RS232 (9600 - 230400 bps), USB (9600 - 921600 bps)
Connectors	12-Pin FPC and 15-Pin Ribbon		
GPIO	-	1 input, 1 strong driver output (each pull-up current can reach 250mA)	4 input, 4 strong driver output (each pull-up current can reach 250mA)
Indicator LEDs	-	Power indicator (green)	Power indicator (green), Status indicator (red)
ENVIRONMENTAL SPECIFICATIONS			
Operating Temp.	-25°C to +65°C		
Storage Temp.	-40°C to +85°C		
Humidity	5-95% non-condensing		
SDK INFORMATION			
Supported OS	Windows, Linux, Android		
Languages	C, C#/.NET, Java		
Demo Software	Windows		
ORDER CODES			
Order Codes	ACC-CB-UHF-USB	ACC-CB-UHF-232	ACC-CB-UHF-ET