

FEATURES

- MZIO expansion slot interface
- Waterproof to IP67 Standards
- 3x8pin connectors
- Unique 1-Wire address
- Software-compatible with the DS9097U
- Compatible with the Meazura™ MEZ1000
- Optional IrDA module
- 27 kV ESD protection (IEC 801-2) on the 1-Wire bus



DESCRIPTION

The TT2305 "iReader MZ" is an iButton/1-Wire interface for the MZIO expansion slot that can be found on the Aceeca's Meazura" MEZ1000 handhelds.

When combined with the MEZ1000, the TT2305 is the most robust and flexible solution for your 1-Wire interfacing needs. Waterproof to IP67 Standards, 27 kV ESD (IEC801-2) protected, the TT2305 it's ready to face your rugged environments.

SPECIAL FEATURES

The TT2305 features a globally unique, DS2401 based, 1-Wire address that allows a unique identification of the product and can be used for tracking purposes or to enforce a software protection scheme.

APPLICATIONS

- Time and attendance
- Automatic part information & warranty tracking
- Temperature monitoring (HACCP)
- Mobile access control
- Route tracking
- Electronic signature
- eCash
- Electronic fleet management
- Quality control
- Asset tracking

8 PIN CONNECTORS

Each of the three 8 pin connectors, located on the front of the unit, can be used to attach the TT2305 to an external probe or to connect it to any 1–Wire network. To improve the reliability of the unit, you should keep your network as short as possible and only use one connector at time.

The pinout of the connectors is shown in figure.



Pin	Function	Pin	Function
1	1–Wire data	5	Not connected
2	1–Wire ground	6	Not connected
3	Not connected	7	Not connected
4	Not connected	8	Not connected

SOFTWARE DEVELOPMENT KIT

The Dallas/Maxim 1–Wire Public Domain Kit is the best choice to develop applications for the TT2305 and allows for code reusing across many different platforms. Code debugging can be performed with a DS9097U connected to a PC running the POSE emulator. Our customers will receive the required files to interface their code to the TT2305 unit.

REFERENCES

- Aceeca [MEZ1000](#) User Guide.
- Aceeca [MZIO based products](#)
- Dallas/Maxim [DS9097U](#) datasheet
- Dallas/Maxim [DS2480B](#) datasheet
- Dallas/Maxim [DS2401](#) datasheet
- Dallas/Maxim [Book of iButton Standards](#)

ORDERING INFORMATION

TT2305–xyz

Option code	Description
X	I = Unique 1–wire address (DS2401) 0 = No address
Y	3 = 3.3V output on the front connectors 0 = No 3.3V output
Z	I = Embedded IrDA module 0 = No IrDA module.

The standard, full–featured, version of the TT2305 can be ordered with the code TT2305–I00. Please contact the factory to inquire about customizations, lead–times and availability.

DATASHEET REVISION HISTORY

Rev.	Date	Description
01	2004-01-29	First draft

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