

# **DAM-3213**

## **User's Manual**



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## DAM-3213 Module

### Overview of Module Function

DAM-3213 is General Purpose RS232/TTL converter, compatible with RS-232, TIA/EIA standards, t it is able to convert RS-232 signal toTTL signal. Because it uses the "RS-232 charge-pump" drive, so no external power supply is needed. t does not need to initialize the RS-232 serial port by the available power, it is with zero delay automatic send and receive internal conversion, unique I/O circuit automatic control data flow direction, does not need any handshaking signals (such as RTS, DTR, etc.). The transfer rate of the converter is from 300bps to115.2Kbps. It can be applied to between the host computers, microcontroller and host computer, the host computer and peripherals to constitute point to point, multipoint remote multi-machine communication networks, to achieve multi-unit response communications.

### Module Structure



### Module Features

- Compact, using DB9 connector.
- Compatible with RS232, TIA/EIA standards and TTL interface.
- Power Supply: a unique serial charge pump drive technology, no external power supply, the real three-wire (TXD.RXD.GND) system for communications, does not need to initialize the serial port.
- Communication Speed: 300BPS-115.2KBPS.
- Used for all communication software, plug and play.
- Dimensions: 63mm × 33mm × 17mm
- Operating Environment: 0 °C to 70 °C, relative humidity 5% to 95%
- Support DOS/WIN95/WIN98/WIN2000/NT/XP/Linux, etc.

## Connector

### RS-232C pin assignment

DB9(PIN)	RS-232C Interface
1	NC
2	Sending data, SOUT(TXD)
3	Receiving data, SIN(RXD)
4	NC
5	Ground (GND)
6	NC
7	NC
8	NC
9	NC

### TTL output terminal

Pin	Output Signal	TTL Output
1	RXD	Receiving data
2	TXD	Sending data
3	NC	NC
4	NC	NC
5	Ground	Ground
6	+5V	+5V standby power input

## Common Faults and Exclusion Method

### 1. Data Communication Failure

- Check the RS-232 interface, whether the wiring is correct.
- Check the TTL output, whether the wiring is correct.
- Check whether the terminals are connected well.

### 2. Data loss or errors

- Check the transfer rate and the format are consistent of the data communications equipment at both ends.