

AL5068S

Smart and low power ISDN socket modem for embedded and M2M applications. This module supports EuroISDN and is pin compatible with Analog, LAN and GSM Socket Modems.

Benefits:

- Enables any device to send and receive data via ISDN.
- Complete, ready-to-integrate ISDN Modem.
- Fastest time-to-market to ISDN-enable existing devices and Controllers.
- Meets EuroISDN DSS1 protocol.
- Low power 5V and 3.3V Versions available.

Functions:

- Enhanced AT-Command set with Autobaud for speed and format sensing.
- Asynchronous Modes, 8 bit, no parity, 1 stop bit with speeds from 9600 to 115200 bps..
- Euro-ISDN D-Channel Signaling protocol (CTR3).
- V.110 rate adaptation protocol with 4800, 9600 and 19200 bps supported.
- B-Channel protocols: X.75, V.120, X.31, HDLC and transparent mode.
- PPP protocol. (RFC 1662 async-sync conversion).
- X.25 / X.31 Case A & B protocols for D- and B-Channel supported.
- X.3 PAD integrated.

Services:

- Firmware updateable.
- Advice of Charge. Charging in national currency.
- Programmable EAZ / MSN.
- Trace mode for debugging integrated.
- Audio capabilities.

Specifications:

- Compact Size: 64.5x26.5x16.2 mm
- Typical Power use: 130mW.
- Single 5V or 3.3V Supply.
- Serial TTL interface (V.24) with 5V tolerant inputs.
- Meets specifications CTR3, CTR3/A1, and TBR3.
- Conforms to EN60950, EN 50081, EN55022, EN55024 and EN61000
- Conforms to the RoHS directive.
- 2 Year warranty.

Ordering:



AL5068S-5V
AL5068S-3V

| Pin Diagram | | | | Pin No | Name | Pin No | Name |
|-------------|---------|-----|----|---------|-----------|---------|--------|
| 1 | TX+ | NC | 64 | 1 | S-BUS TX+ | 64 | NC |
| 2 | TX- | GND | 63 | 2 | S-BUS TX- | 63 | GND |
| 3 | RX+ | NC | 62 | 3 | S-BUS RX+ | 62 | NC |
| 4 | RX- | VCC | 61 | 4 | S-BUS RX- | 61 | VCC |
| | | | | 5 - 9 | NO PIN | 60 | NO PIN |
| | | | | 10 - 20 | NO PIN | 45 - 59 | NO PIN |
| | | | | 21 | NO PIN | 44 | NO PIN |
| | | | | 22 | NO PIN | 43 | NO PIN |
| | | | | 23 | NO PIN | 42 | NO PIN |
| | | | | 24 | RESET | 41 | GND |
| | | | | 25 | NC | 40 | DTR |
| | | | | 26 | GND | 39 | DCD |
| | | | | 27 | NC | 38 | CTS |
| | | | | 28 | NC | 37 | DSR |
| | | | | 29 | DCD LED | 36 | RI |
| | | | | 30 | RXD LED | 35 | TXD |
| | | | | 31 | DTR LED | 34 | RXD |
| | | | | 32 | TXD LED | 33 | RTS |
| 24 | RESET | GND | 41 | | | | |
| 25 | NC | DTR | 40 | | | | |
| 26 | GND | DCD | 39 | | | | |
| 27 | NC | CTS | 38 | | | | |
| 28 | NC | DSR | 37 | | | | |
| 29 | DCD LED | RI | 36 | | | | |
| 30 | RXD LED | TXD | 35 | | | | |
| 31 | DTR LED | RXD | 34 | | | | |
| 32 | TXD LED | RTS | 33 | | | | |

| Operating Conditions | Symbol | Limits | Units |
|---|--------|------------------|-------|
| Supply Voltage 5V Version (-5V Version) | VDD | + 4.75 to + 5.25 | VDC |
| Supply Voltage 3V Version (-3V version) | VDD | + 3.15 to + 3.45 | VDC |
| Operating Ambient Temperature | | 0 to + 70 | °C |
| Extended temperature (ET Version) | | on demand | |

| Power Requirements | Typical Current (mA) | Max. Current (mA) |
|-----------------------------------|----------------------|-------------------|
| Idle mode, normal data connection | 18 | 20 |
| Online mode, data transfer | 25 | 27 |
| Sleep mode | | |

| Product Documentation | Doc Nr. |
|--------------------------|--|
| Designers Guide | AL5068S-E00-106 |
| AT Command Manual | AL5068S-A00-106 |
| Additional Documentation | www.xmodus.ch |

| Contact Information | |
|---|---|
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