

## AL5068SI-3V

Smart and low power ISDN socket modem for embedded and M2M applications. This module supports EuroISDN and Audio features. It 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.

### 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.
- Firmware updateable.

### Services:

- Advice of Charge. Charging in national currency.
- Programmable EAZ / MSN.
- Trace mode for debugging integrated.
- Audio capabilities with an external IOM-2 Bus.
- Analog voice interface supported by external PCM Codecs.

### Specifications:

- Compact Size: 64.5x26.5x16.2 mm
- Typical Power use: 130mW.
- Single 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:



**AL5068SI-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
				19	GND	47	FSC
				20	Codec B - B1/B2	46	DCL
				21	Codec A - B1/B2	45	DD
				22	VCC	44	DU
				23	ISP (not used)	42, 43	NC
				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

Operating Conditions	Symbol	Limits	Units
Supply Voltage 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	<a href="http://www.xmodus.ch">www.xmodus.ch</a>

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