



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:



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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	47	FSC
				48 - 60	NO PIN	46	DCL
				10 - 21	NO PIN	45	DD
				22	NO PIN	44	DU
				23	NO PIN	42, 43	NC
				24	RESET	41	GND
		FSC	47	25	NC	40	DTR
		DCL	46	26	GND	39	DCD
		DD	45	27	NC	38	CTS
		DU	44	28	NC	37	DSR
		NC	43	29	DCD LED	36	RI
		NC	42	30	RXD LED	35	TXD
		GND	41	31	DTR LED	34	RXD
24	RESET	DTR	40	32	TXD LED	33	RTS
25	NC	DCD	39				
26	GND	CTS	38				
27	NC	DSR	37				
28	NC	RI	36				
29	DCD LED	TXD	35				
30	RXD LED	RXD	34				
31	DTR LED	RTS	33				
32	TXD LED						

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	www.xmodus.ch

Contact Information	
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