



AL5068S2

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:



AL5068S2
AL5068S2-3V

Pin Diagram				Pin No	Name	Pin No	Name
		NC	64	1 - 5	NO PIN	64	NC
		GND	63	6	S-BUS TX+	63	GND
		NC	62	7	S-BUS RX+	62	NC
		VCC	61	8	S-BUS RX-	61	VCC
6	TX+			9	S-BUS TX-	60	NO PIN
7	RX+			10 - 20	NO PIN	45 - 59	NO PIN
8	RX-			21	NO PIN	44	NO PIN
9	TX-			22	NO PIN	43	NO PIN
				23	NO PIN	42	NO PIN
				24	RESET	41	GND
				25	NC	40	DTR
				26	GND	39	DCD
24	RESET	GND	41	27	NC	38	CTS
25	NC	DTR	40	28	NC	37	DSR
26	GND	DCD	39	29	DCD LED	36	RI
27	NC	CTS	38	30	RXD LED	35	TXD
28	NC	DSR	37	31	DTR LED	34	RXD
29	DCD LED	RI	36	32	TXD LED	33	RTS
30	RXD LED	TXD	35				
31	DTR LED	RXD	34				
32	TXD LED	RTS	33				

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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