



## 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**  
**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	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>

Contact Information	
 xmodus swiss GmbH Dachslernstrasse 63 CH-8048 Zürich, Switzerland Phone +41 (0) 44 438 88 82 Web: <a href="http://www.xmodus.ch">www.xmodus.ch</a>	
© 2009 xmodus swiss. The information in this document is believed to be accurate in all respects at the time of publication but is subject to change without notice. Xmodus swiss assumes no responsibility for any errors and omissions.	