

## AL6000S

LAN Socket Modem for Ethernet connectivity. Simple UART to Ethernet bridge and an embedded Web server for Ethernet remote control or M2M applications. Pin compatible with Analog, ISDN and GSM Socket Modems.

### Benefits:

- Enables any device to send and receive data via 10/100BaseT Ethernet networks.
- Complete, ready-to-integrate serial-to-Ethernet bridge, ideally suited for a wide range of M2M applications.
- The AL6000S is a lead-free product, conforming to the RoHS standard.
- Flexible IP protocol stack allows integration of user applications.

### Functions:

- Serial interface supports DTE speeds to 230.4 Kbps.
- Data transmission modes are transparent or Telnet.
- Command line interface for management and configuration over serial interface or Telnet.
- HTTP server with web page allows monitoring and configuration with WEB browser.
- Ethernet IEEE 802.3u interface with auto-negotiation of 10/100baseT, half/full-duplex and auto-crossover.
- Complete protocol stack: TCP/IP, ARP, ICMP and DHCP.
- Configurable Telnet client and Telnet server with Auto-Dial.
- Central site setup and monitoring of the remote modules.

### Functions cont'd:

- Device identification, password protection and security administration.
- Network statistics.
- Transmit block size up to 4Kb supported.
- Flash memory to update the firmware with the latest code or custom features.
- Configurable I/O ports and ADC for monitoring and control.
- Trusted IP-address for Telnet dial-in.
- Optional SPI, CAN or USB interfaces.

### Specifications:

- Compact Size: 64.5x26.5x16.2 mm
- Typical Power use: ~100mA.
- Single 5V or 3.3V Supply.
- Serial ITU-T V.24 TTL Interface.
- Conforms to EN60950, EN55022, EN55024 and EN61000
- 2 Year warranty.

Ordering:



**AL6000S**  
**AL6000S-3V**

Pin Diagram		Pin No	Name	Pin No	Name	
<p>Pin diagram showing connections for pins 6 through 32. Labels include TX+, RX+, RX-, TX-, CTS0, TXD0, RTS0, TST1, RESET, TST2, GND, NC, IO0 / LINK-LED, IO1, IO2 / COL-LED, IO3, GND, DTR, DCD, CTS, DSR, RI, TXD, RXD, and RTS.</p>	6	TX+	1 - 5	NO PIN	64	SPEAKER
	7	RX+	6	ETH TX+	63	GND Analog
	8	RX-	7	ETH RX+	62	MICRO IN
	9	TX-	8	ETH RX-	61	VCC
			9	ETH TX-	60	NO PIN
			10 - 18	NO PIN	43 - 59	NO PIN
			19	CTS0	42	NO PIN
			20	TXD0	41	GND
			21	TXD0	40	DTR
			22	RTS0	39	DCD
			23	TST1 (don't use)	38	CTS
			24	RESET	37	DSR
			25	TST2 (don't use)	36	RI
			26	GND	35	TXD
			27	NC	34	RXD
			28	NC	33	RTS
			29	IO0 / LINK-LED	32	IO3
			30	IO1	31	IO2 / COL-LED
			31	IO2 / COL-LED		
			32	IO3		

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

Power Requirements	Typical Current (mA)	Max. Current (mA)
Idle mode, normal data connection	152	175
Sleep Mode	-	-

Product Documentation	Doc Nr.
Designers Guide	AL6000S-E00-102
AT Command Manual	AL6000S-A00-104
Additional Documentation	<a href="http://www.xmodus.ch">www.xmodus.ch</a>

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