



AL6000S2

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:



AL6000S2
AL6000S2-3V

Pin Diagram				Pin No	Name	Pin No	Name
1	TX+	NC	64	1	ETH TX+	64	SPEAKER
2	TX-	GND	63	2	ETH TX-	63	GND Analog
3	RX+	NC	62	3	ETH RX+	62	MICRO IN
4	RX-	VCC	61	4	ETH RX-	61	VCC
				5 - 9	NO PIN	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
19	CTS0			25	TST2	40	
20	TXD0			26	GND	39	
21	TXD0			27	NC	38	
22	RTS0			28	NC	37	
23	TST1			29	IO0 / LINK-LED	36	
24	RESET	GND	41	30	IO1	35	
25	TST2	DTR	40	31	IO2 / COL-LED	34	
26	GND	DCD	39	32	IO3	33	
27	NC	CTS	38				
28	NC	DSR	37				
29	IO0 / LINK-LED	RI	36				
30	IO1	TXD	35				
31	IO2 / COL-LED	RXD	34				
32	IO3	RTS	33				

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	www.xmodus.ch

Contact Information	
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