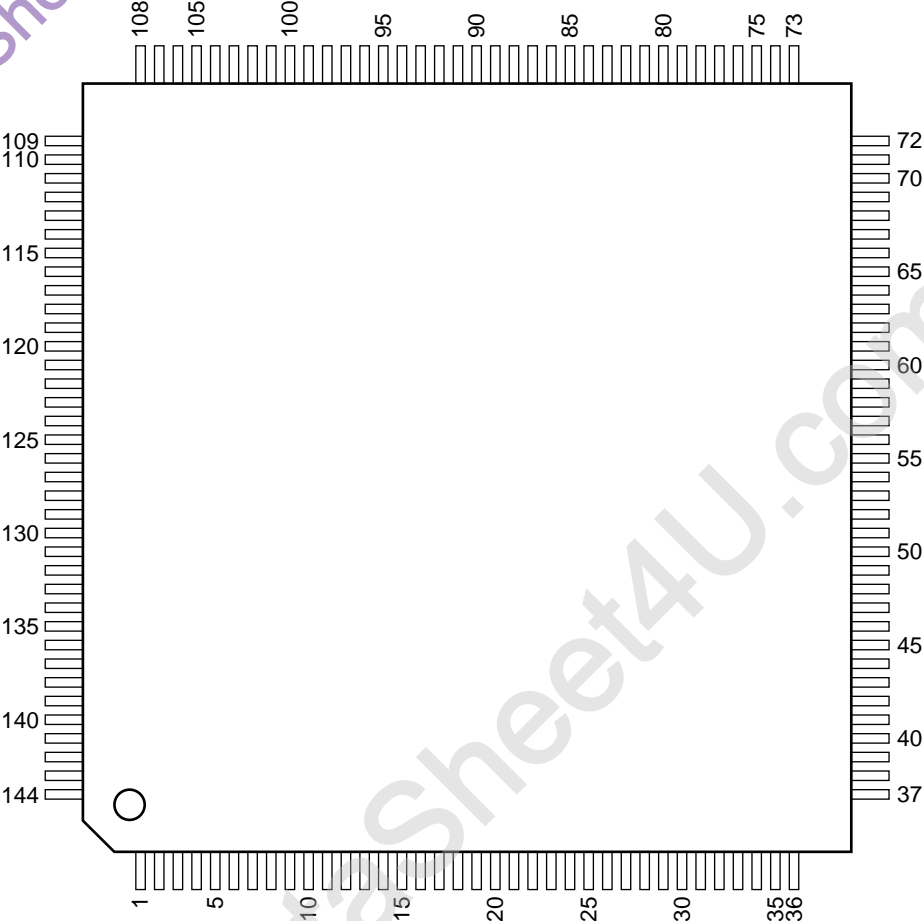


ETHERNET LAN CONTROLLER

—TOP VIEW—



PIN NO.	I/O	SIGNAL	PIN NO.	I/O	SIGNAL	PIN NO.	I/O	SIGNAL
1	—	Vcc	49	I/O	C BE L2	97	I/O	BR AD2
2	—	Vcc	50	I/O	FRAME L	98	I/O	BR AD1
3	—	GND	51	I/O	IRDY L	99	I/O	BR AD0
4	O	TP TD--	52	I/O	TRDY L	100	I/O	GEP0/AUI BNC
5	O	TP TD-	53	—	GND	101	I/O	GEP1/ACTIV
6	O	TP TD+	54	—	Vcc	102	I/O	GEP2/RCV MATCH/WAKE
7	O	TP TD++	55	I/O	DEVSEL L	103	I/O	GEP3/LINK
8	—	Vcc	56	I/O	STOP L	104	—	GND
9	I	TP RD+	57	I/O	PERR L	105	O	XTAL2
10	I	TP RD-	58	O/D	SERR L	106	I	XTAL1
11	I	TCK	59	I/O	PAR	107	—	Vcc
12	I	TMS	60	I/O	C BE L1	108	I	IREF
13	I	TDI	61	I/O	AD15	109	—	ACVcc
14	O	TDO	62	I/O	AD14	110	I	VCAP H
15	I	INT L	63	—	GND	111	—	ACVcc
16	I	RST I	64	I/O	AD13	112	I	SR DO
17	—	GND	65	I/O	AD12	113	O	SR DI
18	—	Vcc	66	I/O	AD11	114	O	SR CK
19	I	PCI CLK	67	—	Vcc	115	O	SR CS
20	—	Vcc CLAMP	68	I/O	AD10	116	—	GND
21	I	GNT L	69	I/O	AD9	117	I	MII CRS/SD
22	O	REQ L	70	I/O	AD8	118	I	MII CLSN/SYM RXD4
23	I/O	AD31	71	—	GND	119	O	MII/SYM TXD3
24	I/O	AD30	72	—	Vcc	120	O	MII/SYM TXD2
25	I/O	AD29	73	—	Vcc	121	O	MII/SYM TXD1
26	—	Vcc	74	—	GND	122	O	MII/SYM TXD0
27	I/O	AD28	75	I/O	C BE L0	123	O	MII TXEN/SYM TXD4
28	I/O	AD27	76	I/O	AD7	124	I	MII/SYM TCLK
29	I/O	AD26	77	I/O	AD6	125	—	Vcc
30	—	GND	78	I/O	AD5	126	—	GND
31	I/O	AD25	79	—	Vcc	127	I/O	MII RX ERR/SEL10 100
32	I/O	AD24	80	I/O	AD4	128	I	MII/SYM RCLK
33	I/O	C BE L3	81	I/O	AD3	129	I	MII DV
34	I	IDSEL	82	I/O	AD2	130	I	MII/SYM RXD3
35	—	GND	83	—	GND	131	I	MII/SYM RXD2
36	—	Vcc	84	I/O	AD1	132	I	MII/SYM RXD1
37	—	Vcc	85	I/O	AD0	133	I	MII/SYM RXD0
38	—	GND	86	I/O	CLKRUN L	134	O	MII MDC
39	I/O	AD23	87	O	BR CE L	135	I/O	MII MDIO
40	I/O	AD22	88	O	BR A0/CB PADS L	136	—	Vcc
41	I/O	AD21	89	O	BR A1	137	I	AUI CD+
42	—	GND	90	I/O	BR AD7	138	I	AUI CD-
43	I/O	AD20	91	I/O	BR AD6	139	I	AUI RD+
44	I/O	AD19	92	I/O	BR AD5	140	I	AUI RD-
45	I/O	AD18	93	I/O	BR AD4	141	—	Vcc
46	—	Vcc	94	—	GND	142	O	AUI TD+
47	I/O	AD17	95	—	Vcc	143	O	AUI TD-
48	I/O	AD16	96	I/O	BR AD3	144	—	GND

**INPUTS**

AUI CD- : ATTACHMENT UNIT INTERFACE RECEIVE COLLISION DIFFERENTIAL  
 NEGATIVE DATA  
 AUI CD+ : ATTACHMENT UNIT INTERFACE RECEIVE COLLISION DIFFERENTIAL  
 POSITIVE DATA  
 AUI RD- : ATTACHMENT UNIT INTERFACE RECEIVE DIFFERENTIAL NEGATIVE DATA  
 AUI RD+ : ATTACHMENT UNIT INTERFACE RECEIVE DIFFERENTIAL POSITIVE DATA  
 GNT L : BUS GRANT  
 IDSEL : INITIALIZATION DEVICE SELECT  
 IREF : CURRENT REFERENCE  
 MII CLSN/SYM RXD4 : COLLISION ASSERT/SYMBOL DATA RECEIVE  
 MII CRS/SD : CARRIER SENSE/SIGNAL DETECT  
 MII DV : DATA VALID  
 MII/SYM RCLK : RECEIVE CLOCK  
 MII/SYM RXD0 - SYM RXD3 : PARALLEL RECEIVE DATA  
 MII/SYM TCLK : TRANSMIT CLOCK  
 PCI CLK : CLOCK  
 RST I : RESET  
 SR DO : SERIAL ROM DATA  
 TCK : JTAG CLOCK  
 TDI : JTAG DATA  
 TMS : JTAG TEST MODE SELECT  
 TP RD- : TWISTED-PAIR NEGATIVE DIFFERENTIAL RECEIVE DATA  
 TP RD+ : TWISTED-PAIR POSITIVE DIFFERENTIAL RECEIVE DATA  
 VCAP H : CAPACITOR FOR ANALOG PHASE-LOCKED LOOP LOGIC  
 XTAL1 : CRYSTAL OSCILLATOR

**OUTPUTS**

AUI TD- : ATTACHMENT UNIT INTERFACE TRANSMIT DIFFERENTIAL NEGATIVE DATA  
 AUI TD+ : ATTACHMENT UNIT INTERFACE TRANSMIT DIFFERENTIAL POSITIVE DATA  
 BR A0, BR A1 : BOOT ROM ADDRESS  
 BR CE L : BOOT ROM OR EXTERNAL REGISTER CHIP ENABLE  
 CB PADS L : PCI/CARD BUS  
 MII MDC : MANAGEMENT DATA CLOCK  
 MII TXEN/SYM TXD4 : TRANSMIT ENABLE/TRANSMIT DATA  
 MII/SYM TXD0 - SYM TXD3 : PARALLEL TRANSMIT DATA  
 REQ L : BUS REQUEST  
 SR CK : SERIAL ROM CLOCK  
 SR CS : SERIAL ROM CHIP-SELECT  
 SR DI : SERIAL ROM DATA  
 TDO : JTAG DATA  
 TP TD-, TP TD-- : TWISTED-PAIR NEGATIVE DIFFERENTIAL TRANSMIT DATA  
 TP TD+, TP TD++ : TWISTED-PAIR POSITIVE DIFFERENTIAL TRANSMIT DATA  
 XTAL2 : CRYSTAL OSCILLATOR

**INPUTS/OUTPUTS**

ACTIV : LED ACTIVITY  
 AD0 - AD31 : PCI ADDRESS AND DATA  
 AUI BNC : BNC (10BASE2) SELECT  
 BR AD0 - BR AD7 : BOOT ROM ADDRESS  
 C BE L0 - C BE L3 : BUS COMMAND AND BYTE ENABLE  
 CLKRUN L : PCI/CARD BUS CLOCK RUN INDICATION  
 DEVSEL L : DEVICE SELECT  
 FRAME L : FRAME  
 GEP0 - GEP3 : INTERRUPT  
 LINK : NETWORK LINK  
 INT L : INTERRUPT REQUEST  
 IRDY L : INITIATOR READY  
 MII MDIO : MANAGEMENT DATA INPUT/OUTPUT TRANSFERS CONTROL INFORMATION  
 AND STATUS  
 MII RX ERR/SEL10 100 : RECEIVE ERROR/10BASE-100BASE SELECT  
 PAR : PARITY  
 PERR L : PARITY ERROR  
 RCV MATCH : RECEIVE PACKET HAS PASSED  
 SERR L : SYSTEM ERROR  
 STOP L : STOP INDICATOR  
 TRDY L : TARGET READY  
 WAKE : WAKE UP EVENT

