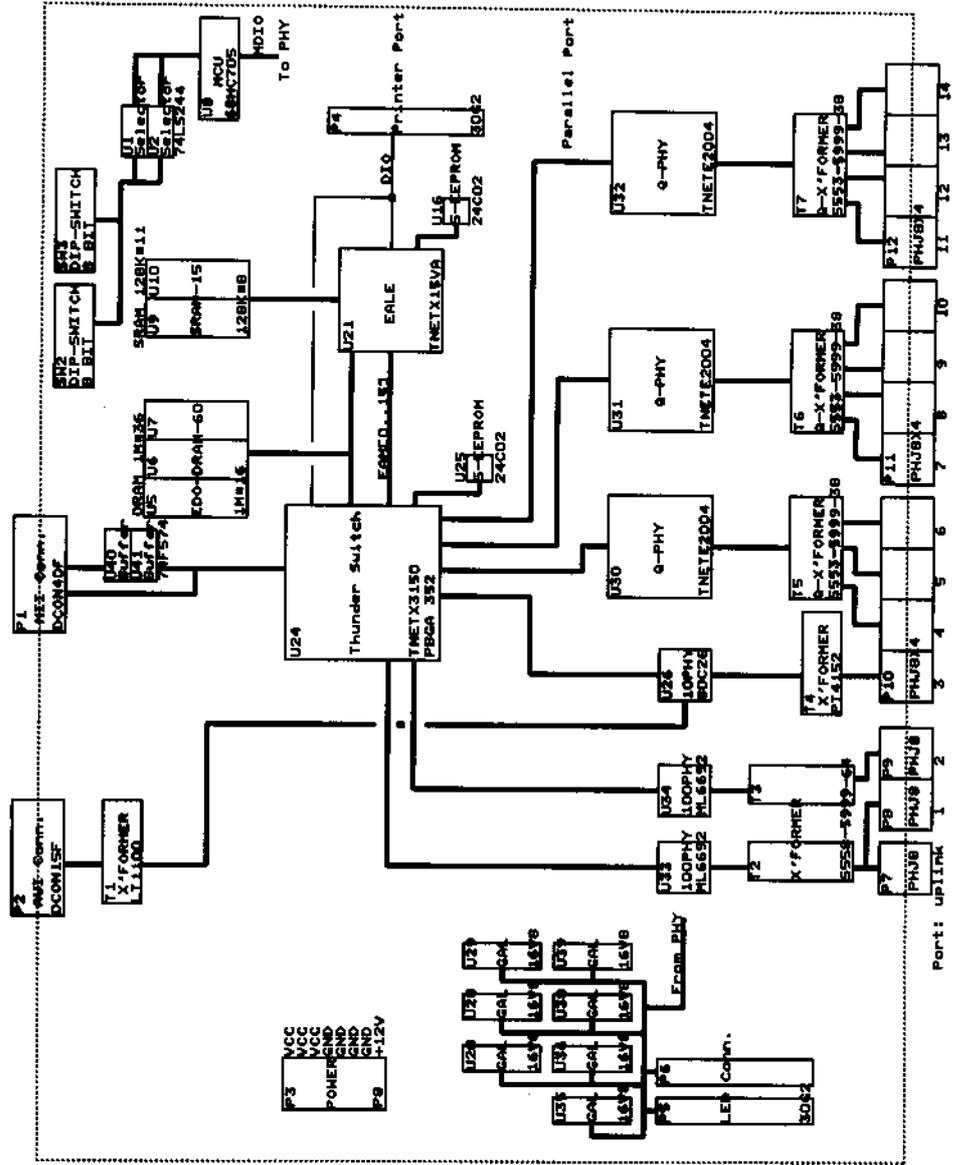


PAGE 01 Thunder Switch (TNETX3150)
 PAGE 02 EALE (TNETX3150L)
 PAGE 03 S-EPR0M (ATMEL 24C02)
 PAGE 04 EDO-DRAM 4M (TMS418169DZ) (80ns)
 PAGE 05 SRAM 128Kx16 (M241024AJ-15)
 PAGE 06 Q-PHY-A (TNETE2004)
 PAGE 07 Q-X'former-A (5553-5999-30)
 PAGE 08 Q-PHY-B (TNETE2004)
 PAGE 09 Q-X'former-B (5553-5999-30)
 PAGE 10 Q-PHY-C (TNETE2004)
 PAGE 11 Q-X'former-C (5553-5999-30)
 PAGE 12 100-PHY-A + X'former (ML6692+5558-5999-64)
 PAGE 13 100-PHY-B + X'former (ML6692+5558-5999-64)
 PAGE 14 Phone-Jack (RJ-45 Ports)
 PAGE 15 AUI PROT (SEEQ 80C26 + PT4153 + LT1001)
 PAGE 16 POWER
 PAGE 17 RESET & CLOCK
 PAGE 18 Display-1 TRAFFIC (EPLD ALTERA 7032-15)
 PAGE 19 Display-2 LINK/ACTIVE (GAL AND 16V8H03)
 PAGE 20 Display-3 FDUP/COL (GAL AND 16V8H04)
 PAGE 21 Duplex Dip-Switch Settings (MC68HC705J1A)
 PAGE 22 Parallel Port Interface
 PAGE 23 WII Interface



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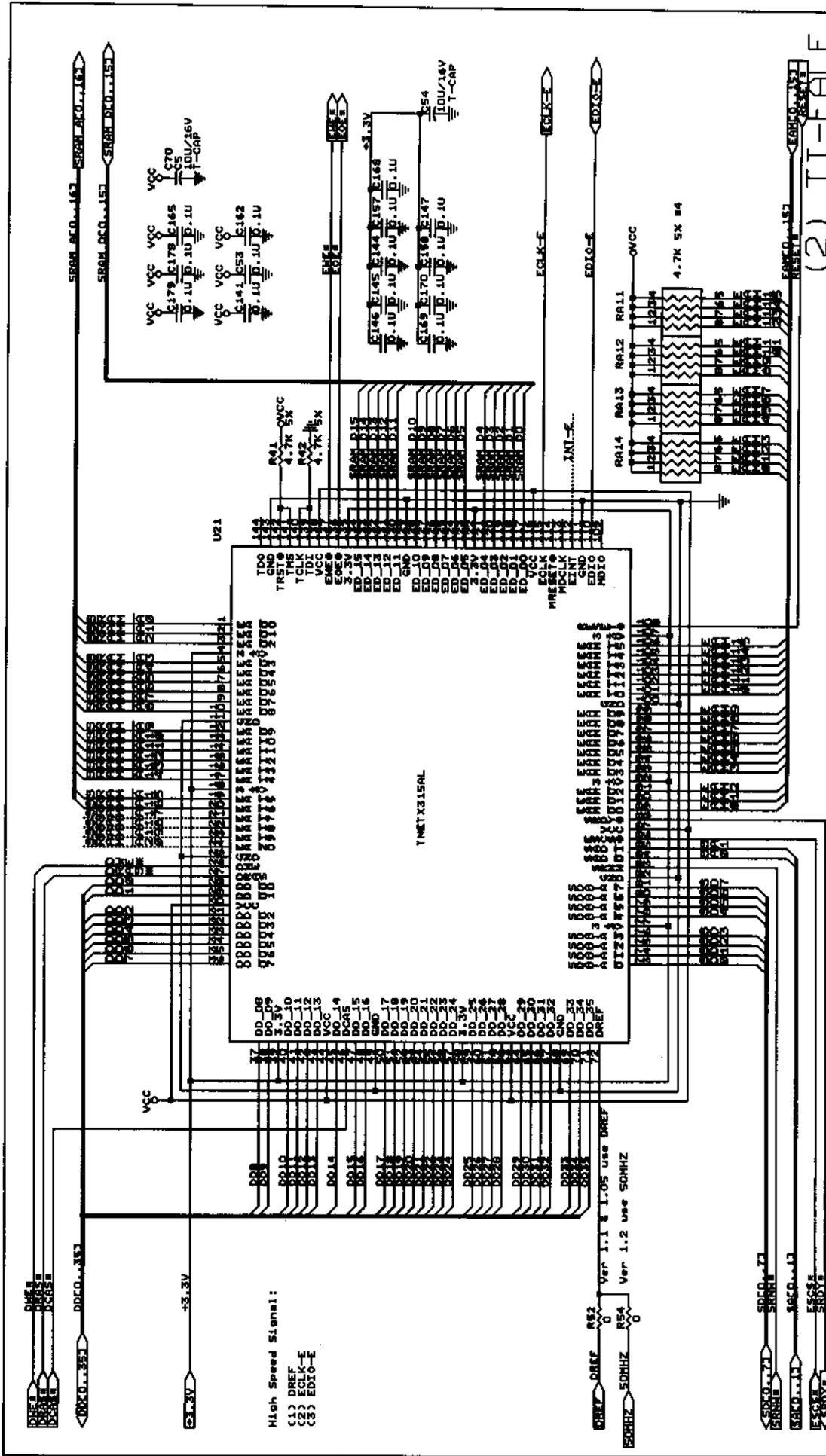
Approved: *[Signature]* 10/16/97
 Checked: *[Signature]* 10/16/97

Prepared: *[Signature]* Cheer Ko
 Issued Date: 10/13/94

TI-Based Ether-Switch
 Title: ESR188

Doc. No.: 305DES815 - - - A2 -
 Date: September 10, 1997 Sheet 1 of 1

Block Diagram of DES-815 Rev. Ax

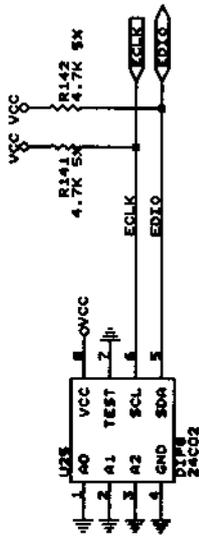


(2) TI-EAL2

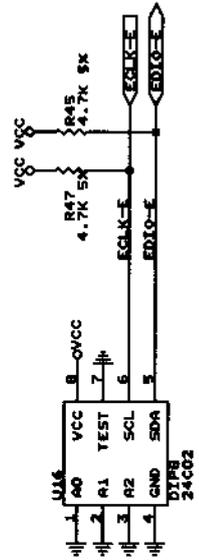
Approved: 10/13/94
 Checked: 10/13/94
 Title: TI-Based Ether-Switch
 Part: A
 Size: Document Number: 3100, 3200
 Date: April 94, 1997 Sheet 2 of 23

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 Corp.

DOC. No.: 305DES815 - - - - A2 -



Connect to TI-SWITCH

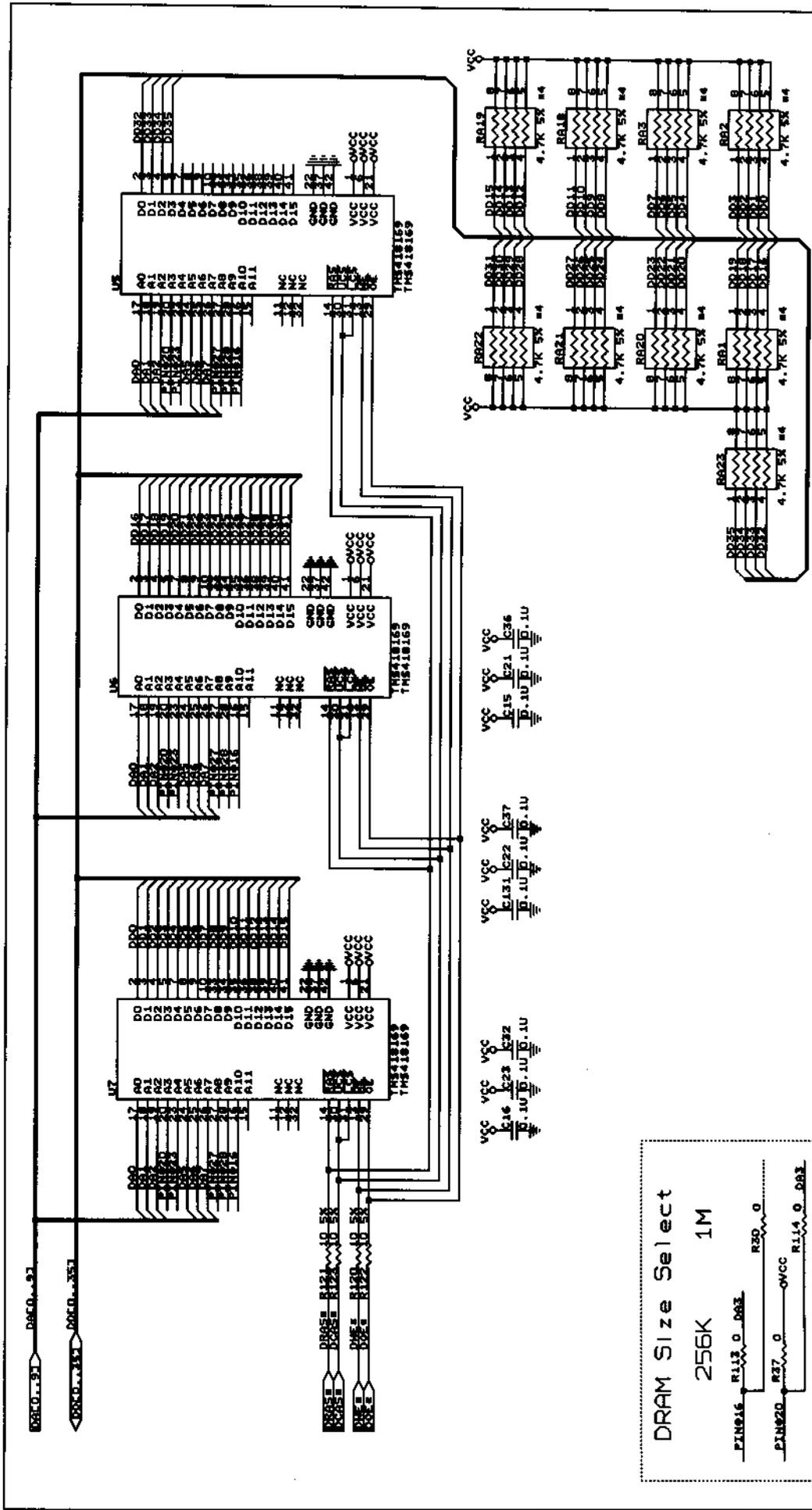


Connect to TI-EALE

- High Speed Signal:
- <1> ECLK-E
 - <2> ECLK-E
 - <3> EDIO-E
 - <4> EDIO-E

(3) 2 Wire S-EEPROM

D-Link Corp.	Approved: BA 10/16/97	Prepared: Chear Ko	
	Checked: BA 10/16/97	Issued Date: 10/13/96	
DOC. No.: 305DES815 - - - A2 -	Version: A	TI Document Number: ES-815B	REV: 2100
		Size: 2200	A2
		Date: APR-11 2, 1997	Sheet 3 of 3

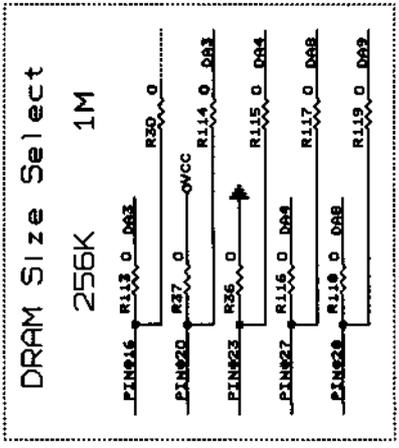


(4) EDO-DRAM

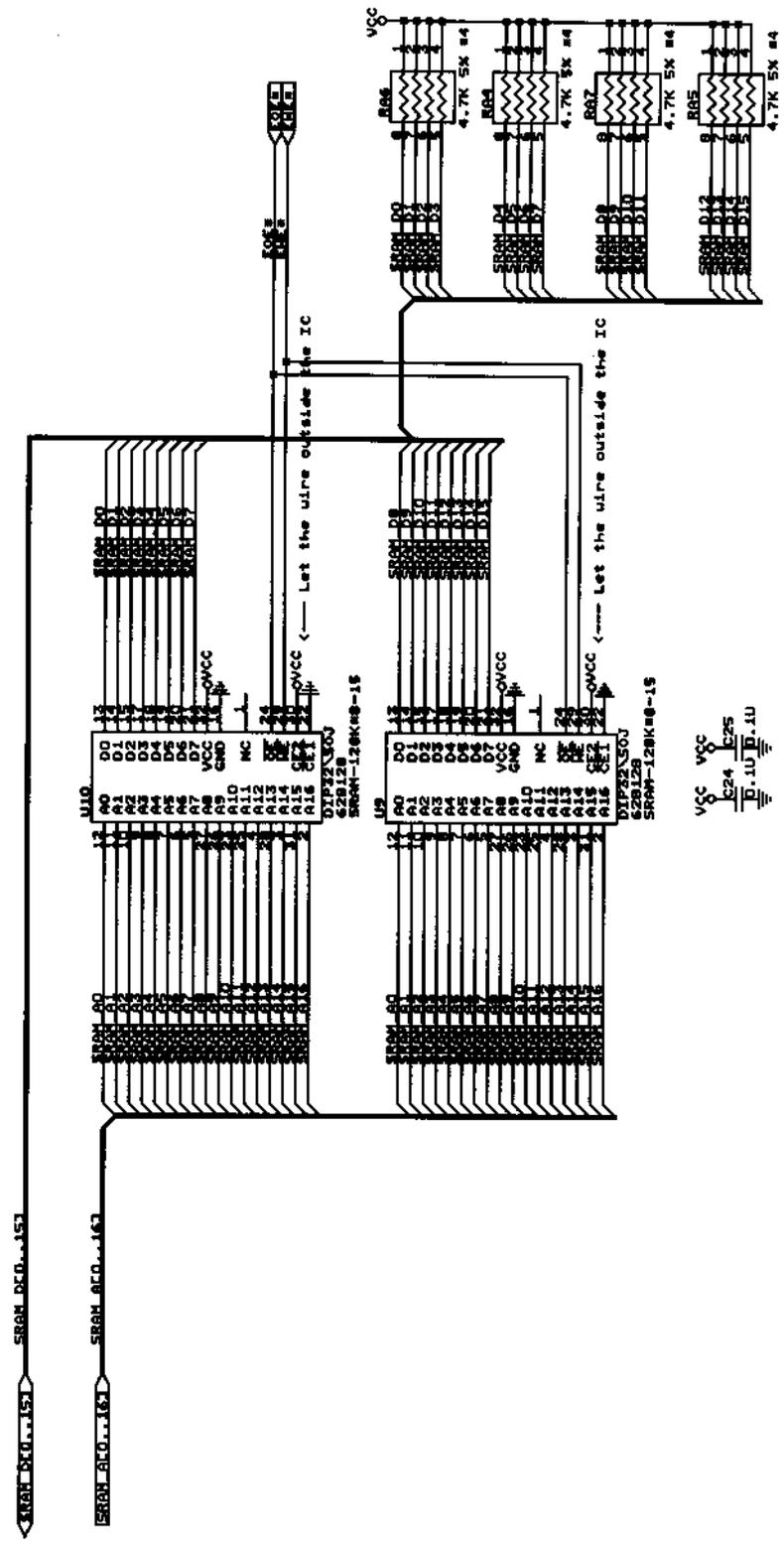
Approved: Prepared: Cheer Ko
 Checked: Issued Date: 10/13/96
 Title: TI-Based Ether-Switch
 Part Number: 305DES815
 Size: 2100
 Document Number: 2200
 Revision: A2
 Date: APR 17, 1997
 Sheet: 4 of 23



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SRAM_DCO...157 TEST PIN
 SRAM_ACO...157 TEST PIN



(5) EALE-SRAM

D-Link Corp.

DOC. No.: 305DES815 - - - A2 -

Approved: Version: 4

Checked: Title: II-Based Ether-Switch

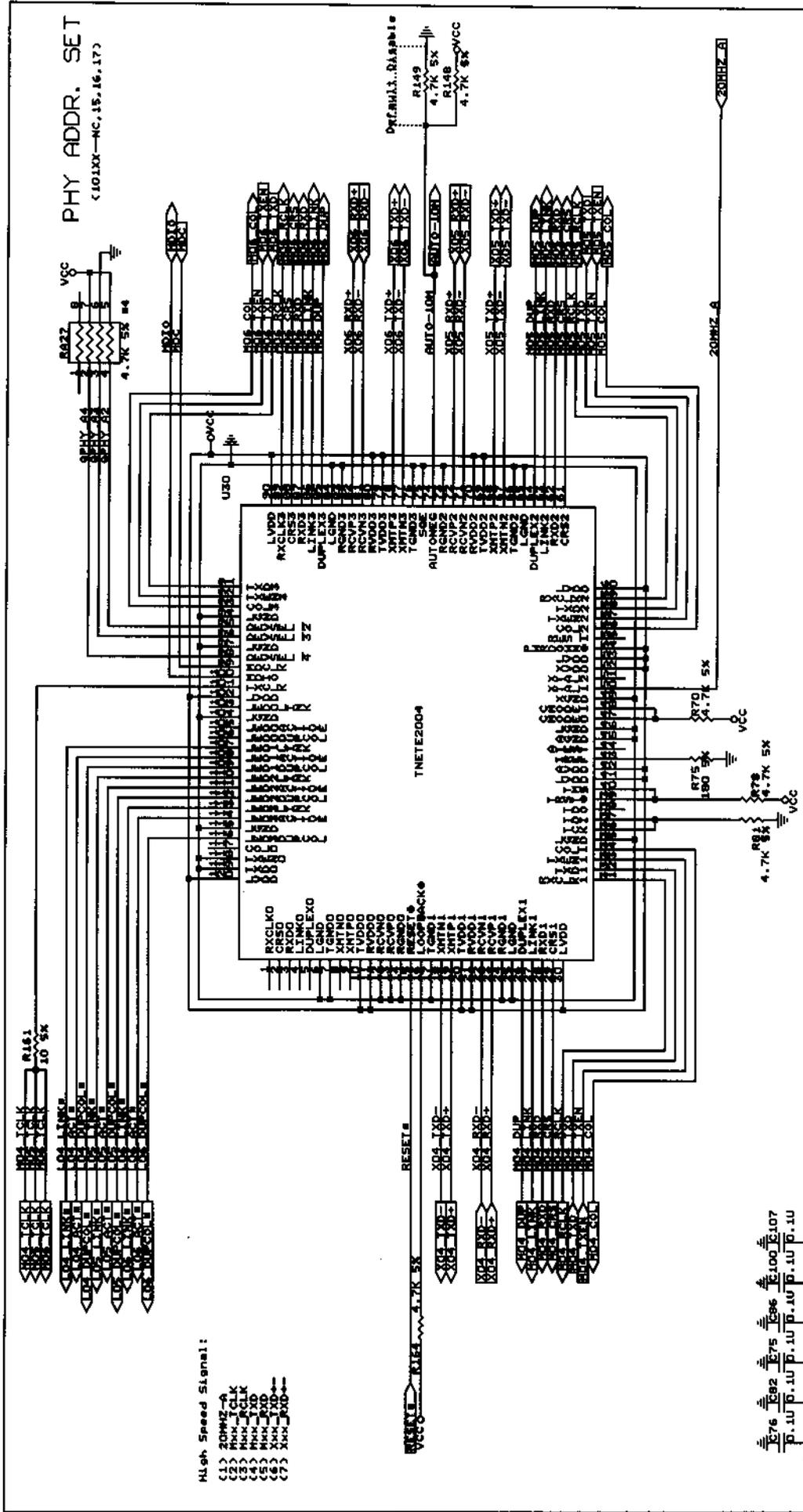
Prepared: Cheer No: 高其水

Issued Date: 10/13/96

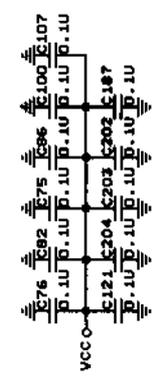
Size/Document Number: 2100 2200

REV: A2

APRIL 2, 1997 Sheet 5 of 23



Flash Speed Signal:
 C1) 20MHz_A
 C2) MUX_TCLK
 C3) MUX_TCLK
 C4) MUX_RXD
 C5) MUX_TXD
 C6) MUX_RXD
 C7) MUX_TXD



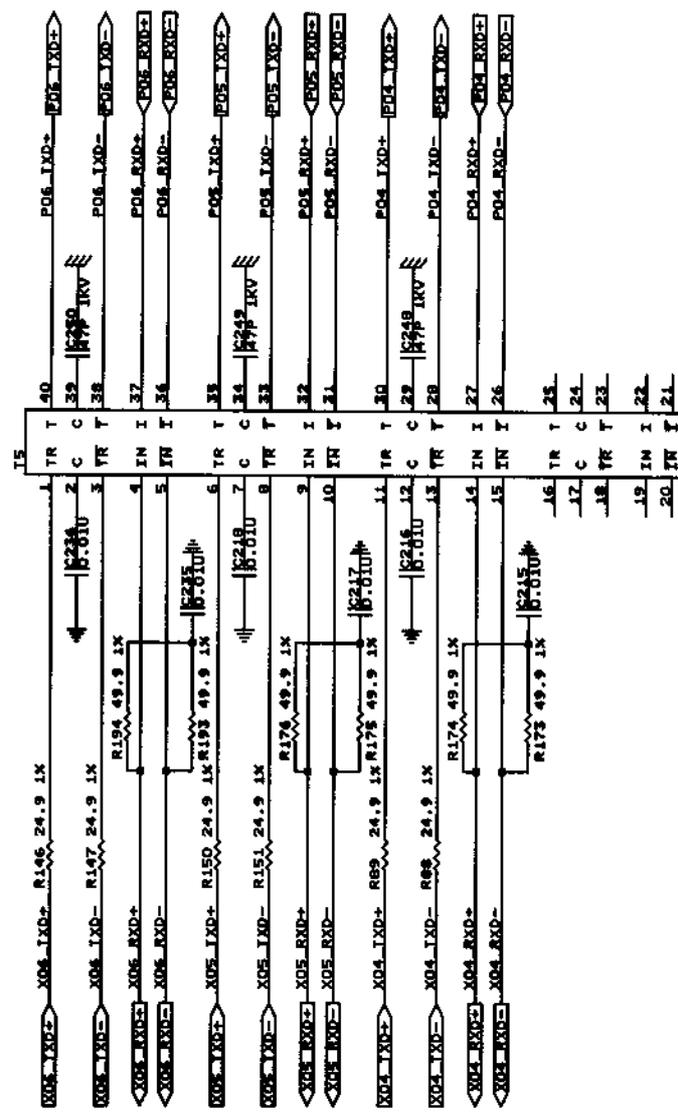
(6) 10Mb ports 4.6: QPHY

D-Link Corp.

Approved: [Signature] Prepared: [Signature] Cheer Ka
 Checked: [Signature] Issued Date: 10/13/96
 Title: TI-Based Ether-Switch
 Version: 6
 Size: Document Number: 305DES815
 Part: Rev: 7, 1997 Sheet 6 of 23

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TI-SWITCH NO.: NC, 4, 5, 6
 PHY - ADDRESS: NC, 15, 16, 17



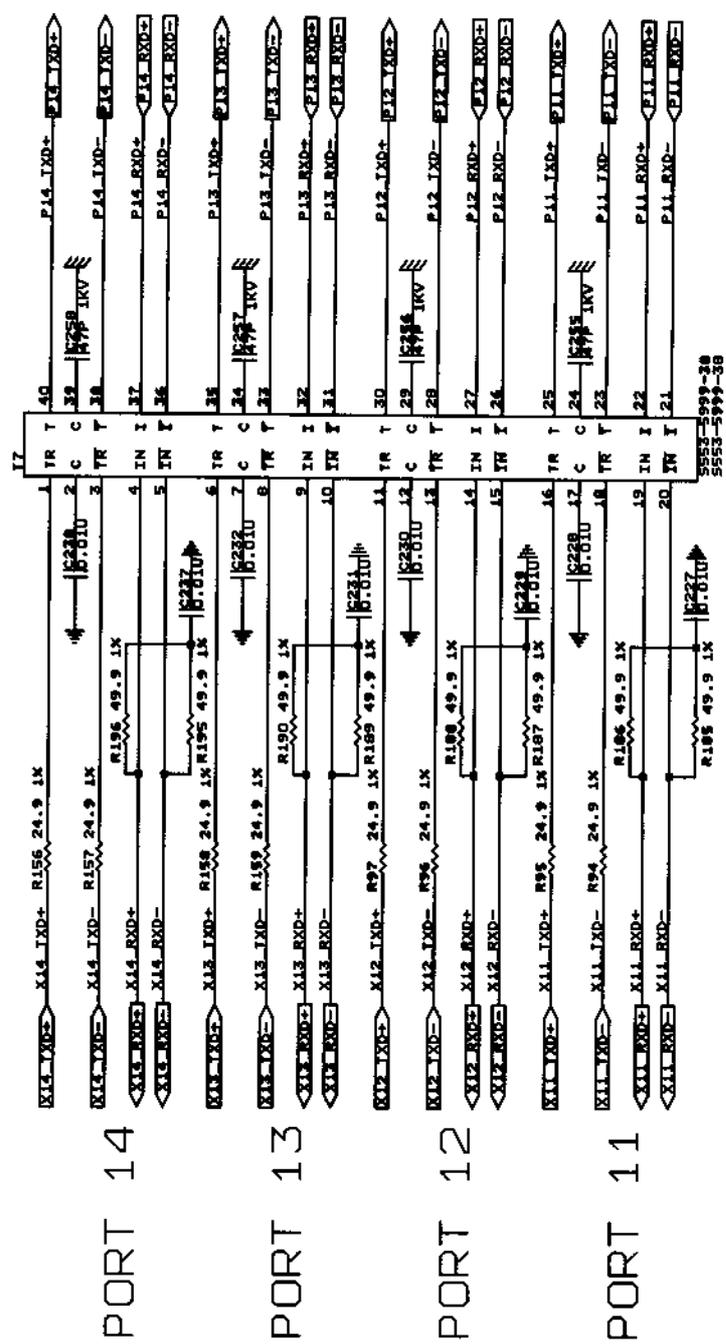
High Speed Signal:
 (1) Xxx_TXD+
 (2) Xxx_TXD-
 (3) Xxx_RXD+
 (4) Xxx_RXD-

(7) 10Mb ports 4..6: Xformer



Doc. No.: 305DES815 - - - A2 -

Approved: [Signature] Cheer No. []
 Issued Date: 10/13/96.
 Title: TI-Based Ether-Switch
 Size Document Number: 2100
 Version: 2.1997Bsgf
 Date: APR 11 2 1997



High Speed Signal:
 (1) Xxx_TXD+
 (2) Xxx_RXD+
 (3) Pxx_TXD+
 (4) Pxx_RXD+

(11) 10Mb ports 11..14: Xformer

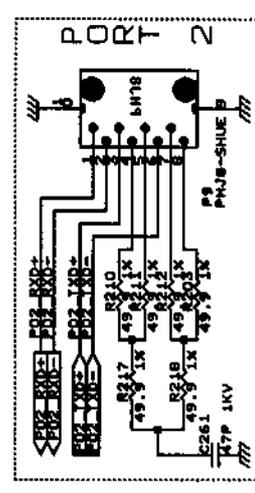
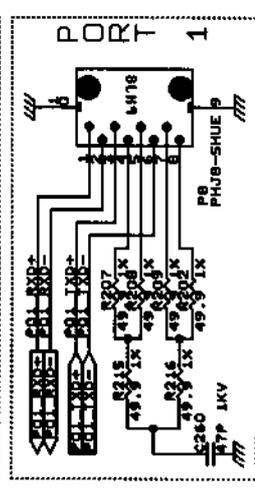
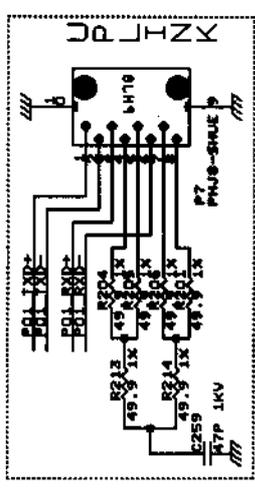
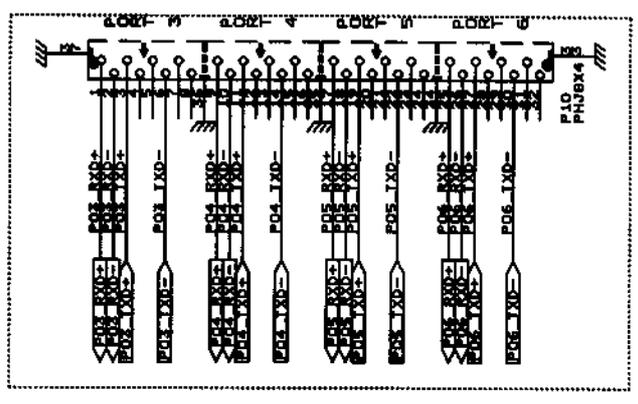
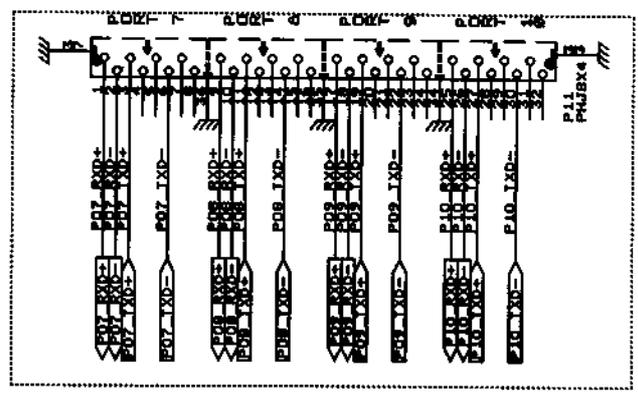
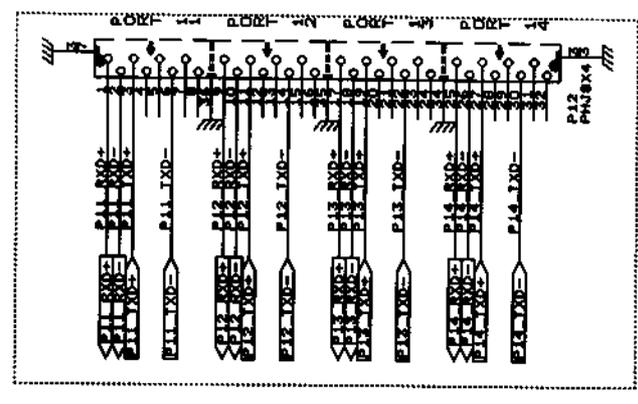


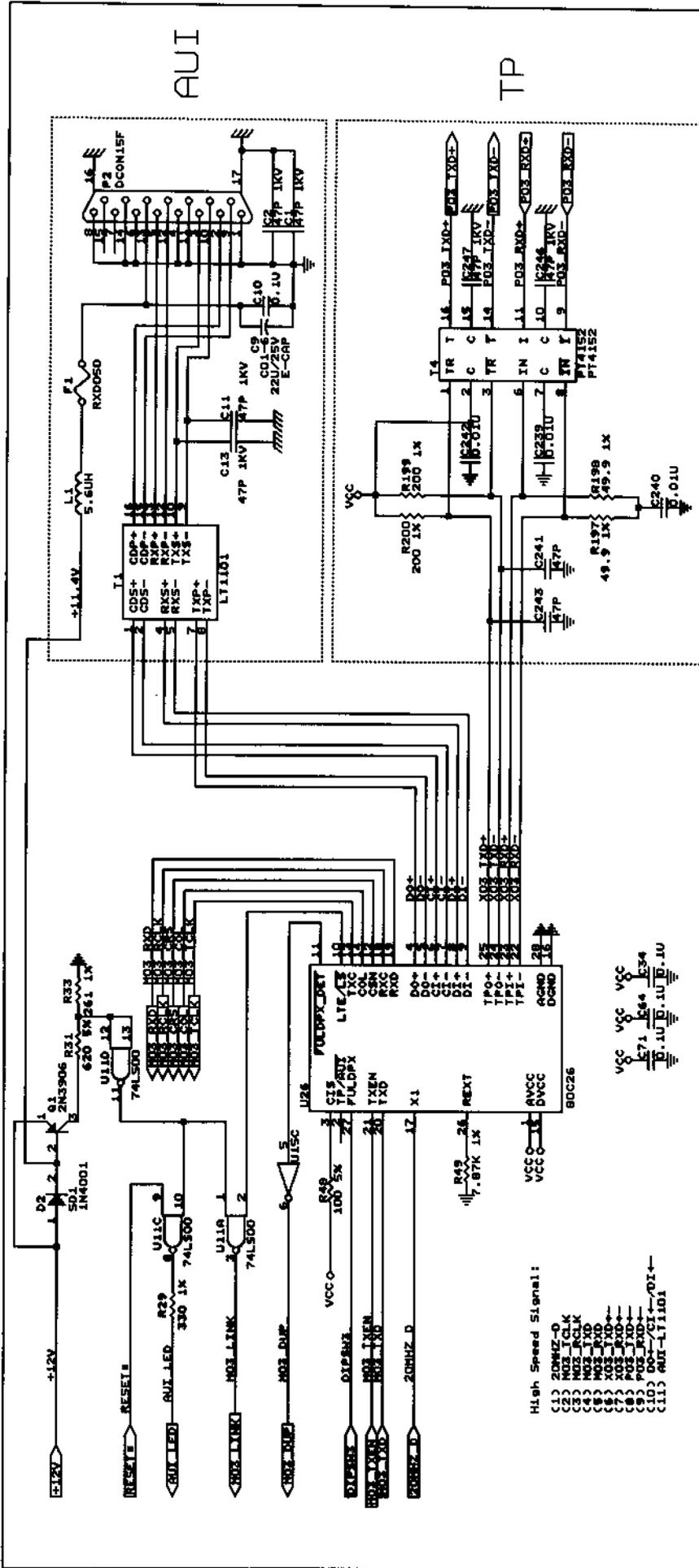
DOC. NO.: 305DES15 - - - A2 -

Approved: [Signature] Prepared: 10/13/97
 Checked: [Signature] Assured Date: 10/13/97
 Title: TI-Based Ether-Switch
 Version: 1.4
 Size: 3100
 Document Number: 2200
 Part: 2, 1397 Sheet 11 of 23

TI-SWITCH NO.: 11, 14, 15, 16
 PHY - ADDRESS: 1C, 1D, 1E, 1F

(14) Phone-Jack RJ-45





AUI

TP

(15) 10Mbps port 3: AUI/TP

D-Link Corp.

DOC. NO.: 305DES815 ---A2-

Approved: [Signature] 10/13/96

Checked: [Signature] 10/13/96

Prepared: [Signature] 10/13/96

Issued Date: 10/13/96

Title: TI-Based Ether-Switch

Version: 1.1.4

Size: 2100

Doc. Number: 2200

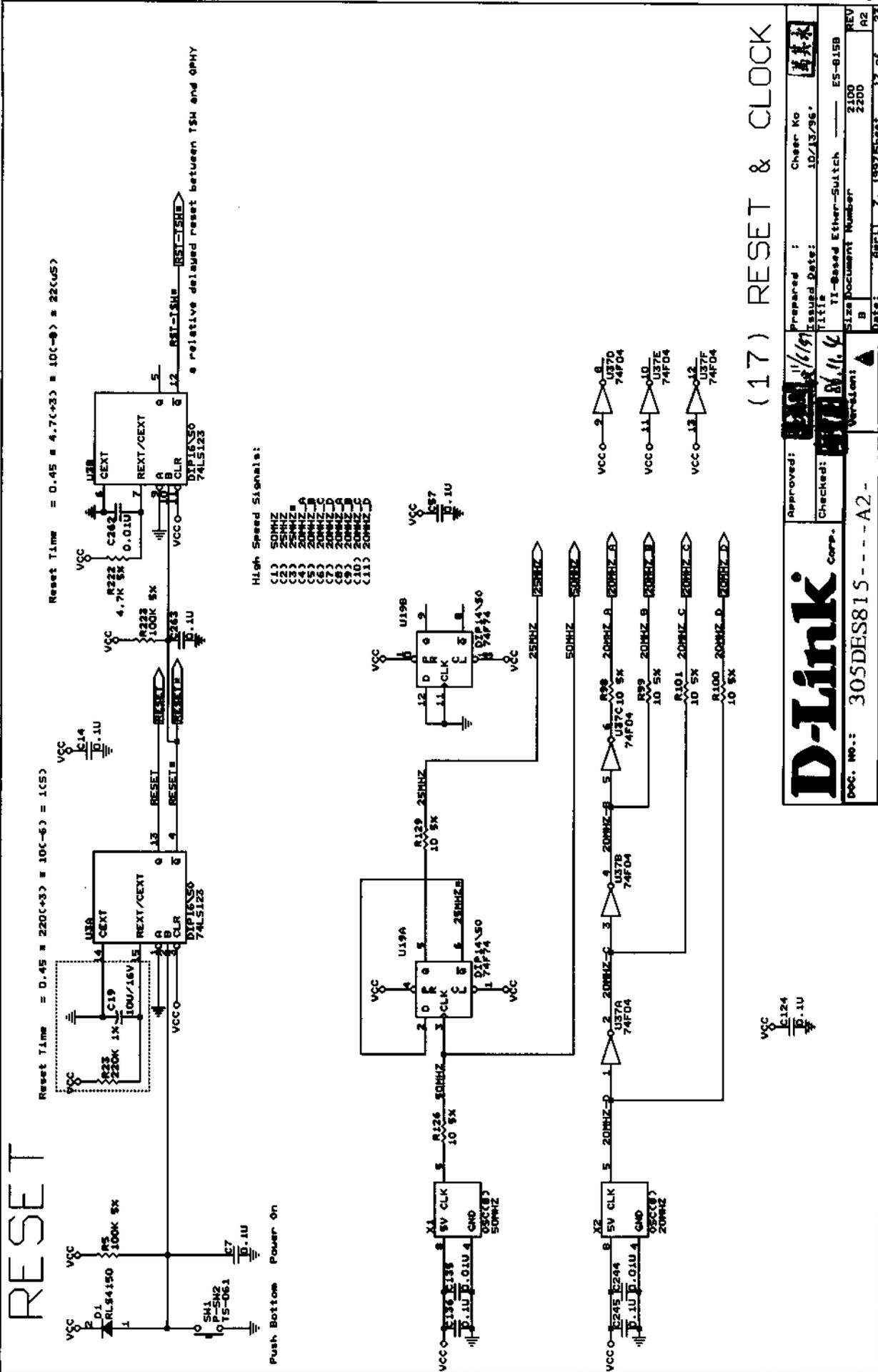
REV: A2

DATE: April 7, 1997

REV: 15 of 23

16/26

- High Speed Signal:
- C13 20MHZ-D
 - C23 HDX_TCLK
 - C24 HDX_TCLK
 - C43 HDX_TCLK
 - C63 HDX_TXD
 - C65 HDX_TXD
 - C73 HDX_RXD
 - C83 HDX_RXD
 - C85 HDX_RXD
 - C103 HDX_TXD
 - C105 HDX_TXD
 - C113 HDX_RXD
 - C115 HDX_RXD



RESET

Reset Time = 0.45 * 220(±3) * 10(-6) = 1(±5)

Reset Time = 0.45 * 4.7(±3) * 10(-8) = 22(±0.5)

a relative delayed reset between TSM and oPHY

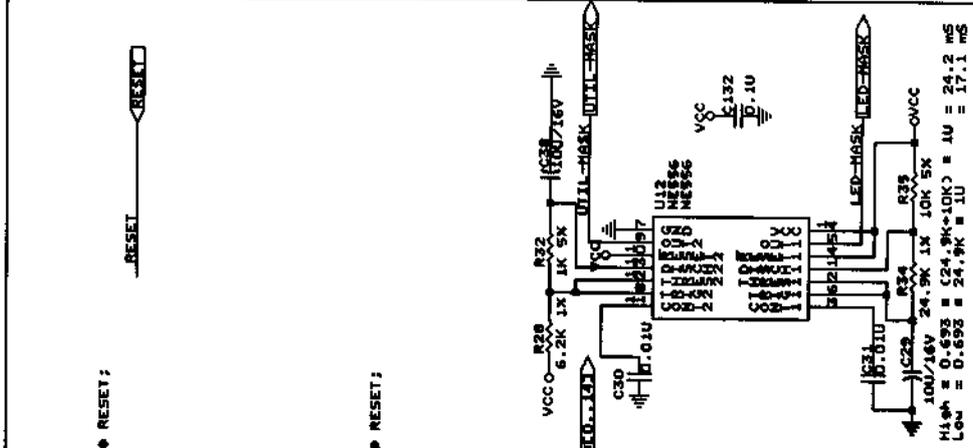
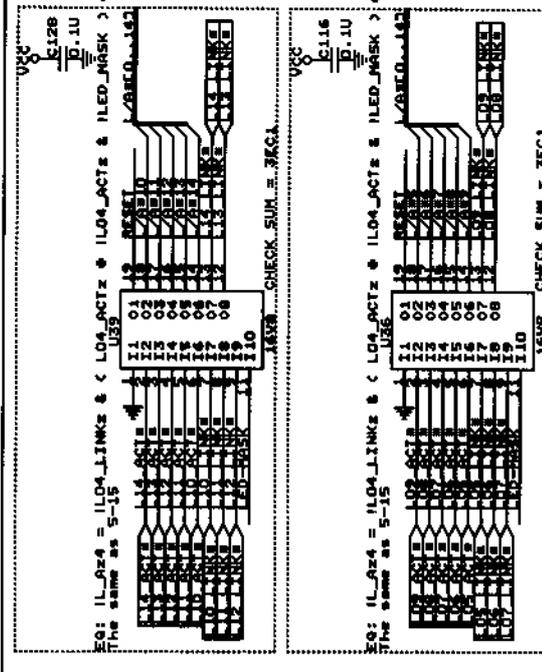
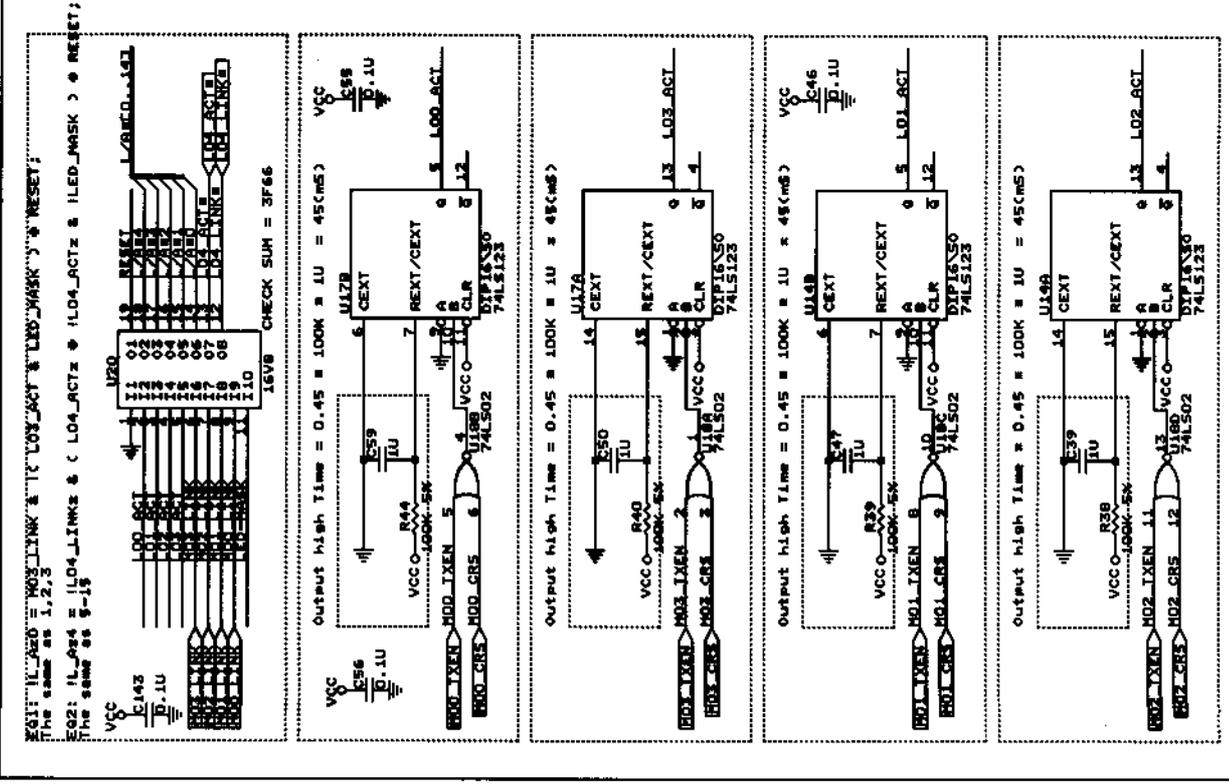
- High Speed Signals:
- (L1) 50MHZ
 - (L2) 25MHZ
 - (L3) 50MHZ
 - (L4) 25MHZ
 - (L5) 20MHZ-A
 - (L6) 20MHZ-B
 - (L7) 20MHZ-C
 - (L8) 20MHZ-A
 - (L9) 20MHZ-B
 - (L10) 20MHZ-C
 - (L11) 20MHZ-D

(17) RESET & CLOCK

Approved:	11/19	Prepared:	10/13/96
Checked:	11/19	Issued Date:	10/13/96
Version: 1.0		Title: TI-Based Ether-Switch	
Doc. No.: 305DES815-...-A2-		Size:	2100
		Part:	2300
		Date:	1997/08/23
		Rev:	A2
		Page:	23

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DEC. NO.: 305DES815-...-A2-



(LINK/ACTIVE)
 (19) DISPLAY-2

Prepared: 10/13/96
 Issued Date: 10/13/96
 Title: TI-Based Ether-Switch
 Size Document Number: ES-015B
 Ver: 1.0
 Part: 7, 1997Bnet

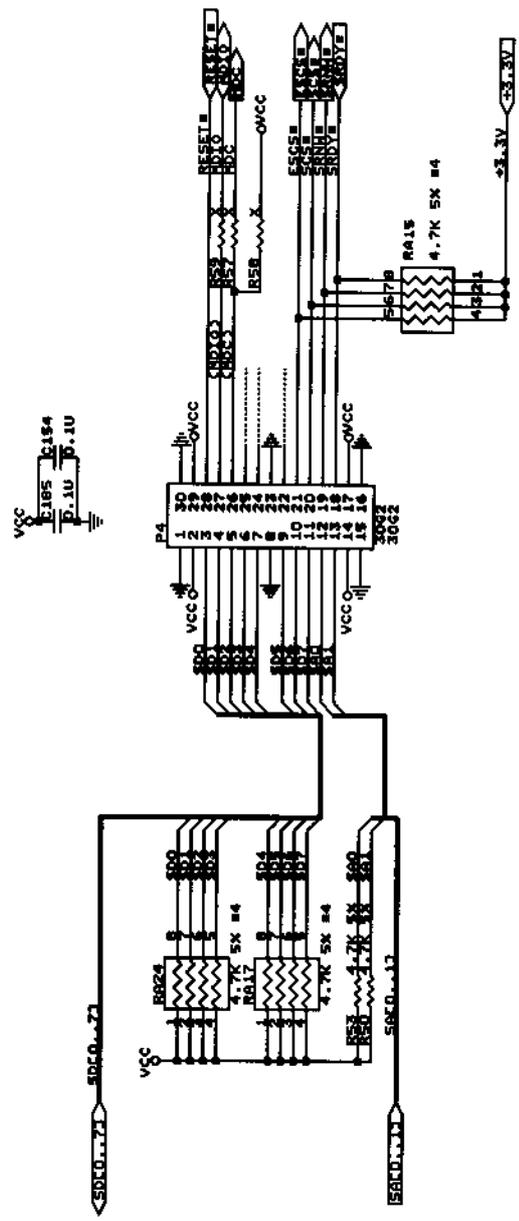
D-Link Corp.

DOC. NO.: 30DES815 - - - A2 -

Approved: [Signature] 10/16/97
 Checked: [Signature] 10/16/97
 Ver: 1.0

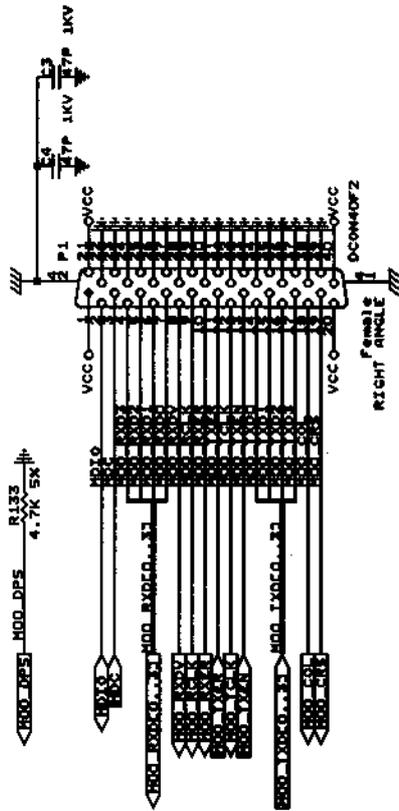
Prepared: [Signature] 10/13/96
 Issued Date: 10/13/96
 Title: TI-Based Ether-Switch
 Size Document Number: ES-015B
 Ver: 1.0
 Part: 7, 1997Bnet

REV A2 20/26



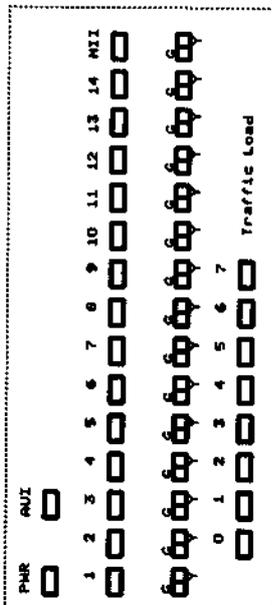
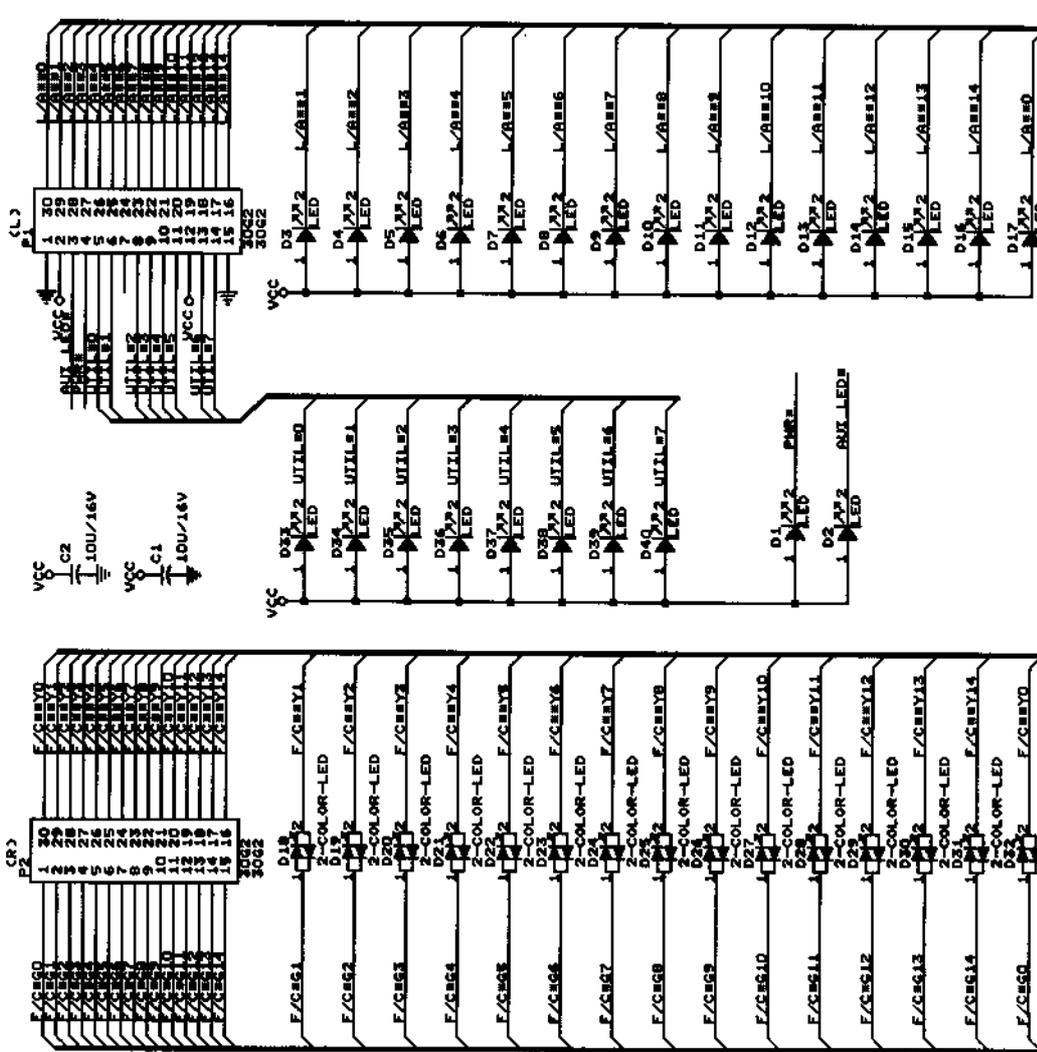
(22) Parallel Port

D-Link Corp.	Approved: <i>[Signature]</i> 10/16/97	Prepared: <i>[Signature]</i>
	Checked: <i>[Signature]</i>	Issued Date: 10/13/96
DOC. NO.: 305DES815 - - - A2 -	Version: <i>[Signature]</i>	Title: T1-based Ether-Switch
	Size: 2100	Size Document Number: 63-015B
	Part: 7, 3397Sheet	REV: A2
		22 of 23



(23) MII Connector

D-Link Corp. DOC. No.: 305DES815 - - - A2 -	Approved: [Signature] 11/6/97	Prepared by: [Signature] Cher Ko
	Checked: [Signature] 11/6/97	Issued Date: 10/13/98
	Version: [Signature] 11/6/97	Title: TI-Based Ether-Switch
		Size Document Number: E5-815B
		Date: Apr. 1 2, 1997 Sheet 23 of 23



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Approved: Date: 10/13/96

Prepared: Date: 10/13/96

Issued Date: 10/13/96

File: TI-Based Ether-Switch

Version: 2100

Size Document Number: 2200

Doc. No.: 305DES815 - - - A2 -

Rev: 01

Date: January 14, 1997 Sheet 1 of 1