

# LAN8710A MII PHY Customer Evaluation Board

Assy 6583  
PCB Revision C  
Schematic Revision 1.2

## Design Details

Board:  
Assy 6583

Chip:  
SMSC LAN8710A

Board Form Factor:  
MII

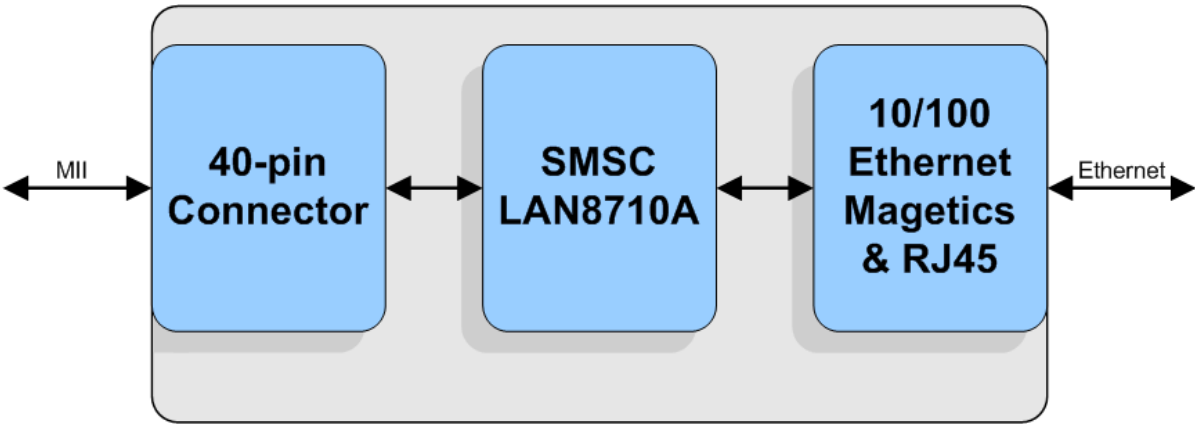
Assembly:  
32 Lead QFN w/ Exposed GND Pad

Circuit Diagrams utilizing SMSC Products Are Included As A Means Of Illustrating Typical Semiconductor Applications: Consequently Complete Information Sufficient For Construction Purposes Is Not Necessarily Given. The Information Has Been Carefully Checked And Is Believed To Be Entirely Reliable. However, No Responsibility Is Assumed For Inaccuracies. Furthermore, Such Information Does Not Convey To The Purchaser Of The Semiconductor Devices Described Any License Under The Patent Rights Of SMSC Or Others. SMSC Reserves The Right To Make Changes At Any Time In Order To Improve Design And Supply The Best Product Possible.

### Revision History

- Rev 1.0:**  
Initial release, Rev C
- Rev 1.1:**  
All Pages - Changed from LAN8710 to LAN8710A
- Rev 1.2:**  
C19 changed from 0.1uF to 470pF.

### BLOCK DIAGRAM



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# LAN8710A / Magnetics / MII Connector

This schematic diagram illustrates the electrical connections for the LAN8710A Magnetics / MII Connector. The circuit includes a power management section with a +5V regulator (VR1) and a +3.3V regulator (FB1), both decoupled with capacitors (C1, C2, C3, C4, C5, C6, C7, C8, C9, C10, C11, C12, C13, C14, C15, C16, C17, C18, C19, C20). The LAN8710A (U2) is connected to the power rails and the MII connector (J1) via a signal header (P1). The MII connector is a 2x14 header with pins for MDIO, MDC, RXD0, RXD1, RXD2, RXD3, RXD4, RXD5, RXD6, RXD7, RXD8, RXD9, RXD10, RXD11, RXD12, RXD13, RXD14, RXD15, RXD16, RXD17, RXD18, RXD19, RXD20, RXD21, RXD22, RXD23, RXD24, RXD25, RXD26, RXD27, RXD28, RXD29, RXD30, RXD31, RXD32, RXD33, RXD34, RXD35, RXD36, RXD37, RXD38, RXD39, RXD40, RXD41, RXD42, RXD43, RXD44, RXD45, RXD46, RXD47, RXD48, RXD49, RXD50, RXD51, RXD52, RXD53, RXD54, RXD55, RXD56, RXD57, RXD58, RXD59, RXD60, RXD61, RXD62, RXD63, RXD64, RXD65, RXD66, RXD67, RXD68, RXD69, RXD70, RXD71, RXD72, RXD73, RXD74, RXD75, RXD76, RXD77, RXD78, RXD79, RXD80, RXD81, RXD82, RXD83, RXD84, RXD85, RXD86, RXD87, RXD88, RXD89, RXD90, RXD91, RXD92, RXD93, RXD94, RXD95, RXD96, RXD97, RXD98, RXD99, RXD100, RXD101, RXD102, RXD103, RXD104, RXD105, RXD106, RXD107, RXD108, RXD109, RXD110, RXD111, RXD112, RXD113, RXD114, RXD115, RXD116, RXD117, RXD118, RXD119, RXD120, RXD121, RXD122, RXD123, RXD124, RXD125, RXD126, RXD127, RXD128, RXD129, RXD130, 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Title				
LAN8710A / Magnetics / MII Connector				
Size	Engineer	Assembly No.	PCB Rev	Schematic Rev
	R. W.	6583	C	1.2
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