

**16M Byte (2M x64) FLASH DIM M M ODULE** *ADVANCED****FEATURES**

- Access Times of 70, 100ns
- Packaging:
 - Module is manufactured with eight 2Mx8 CMOS Flash memory devices in TSOP on laminate substrate.
 - 168-pin DIMM
- $5V \pm 10\%$ VCC and $12V \pm 5\%$ VPP
- Flash Memory Components:
 - WPF286421-XB1SI with Intel Part Number E28F016SA
 - WPF286421-XB1SH with Sharp Part Number LH28F016SAT
- Organized as 2Mx64, User Configurable as 2 banks of 2Mx32.
- Commercial Temperature Range
- Low Power CMOS
- Built-in Decoupling Caps and Multiple Ground Pins for Low Noise Operation, Separate Power and Ground Planes to improve noise immunity

* This data sheet describes a product that may or may not be under development and is subject to change or cancellation without notice.

PIN CONFIGURATION FOR WPF286421-XB1SX

Pin #	Pin Name	Pin #	Pin Name	Pin #	Pin Name	Pin #	Pin Name	Pin #	Pin Name	Pin #	Pin Name	Pin #	Pin Name
1	Vss	25	NC	49	Vcc	73	VPP	97	DQ40	121	A9	145	NC
2	DQ0	26	Vcc	50	NC	74	DQ29	98	DQ41	122	A11	146	NC
3	DQ1	27	WE0	51	NC	75	DQ30	99	DQ42	123	A13	147	NC
4	DQ2	28	CS0	52	DQ16	76	DQ31	100	DQ43	124	Vcc	148	NC
5	DQ3	29	NC	53	DQ17	77	NC	101	DQ44	125	NC	149	DQ55
6	VPP	30	RP	54	Vss	78	Vss	102	Vcc	126	A15	150	NC
7	DQ4	31	OE	55	DQ18	79	PD1	103	DQ45	127	Vss	151	DQ56
8	DQ5	32	Vss	56	DQ19	80	PD3	104	DQ46	128	NC	152	Vss
9	DQ6	33	A0	57	DQ20	81	PD5	105	DQ47	129	A17	153	DQ57
10	DQ7	34	A2	58	DQ21	82	PD7	106	NC	130	A19	154	DQ58
11	NC	35	A4	59	Vcc	83	NC	107	Vss	131	A20	155	DQ59
12	Vss	36	A6	60	DQ22	84	Vcc	108	NC	132	NC	156	DQ60
13	DQ8	37	A8	61	NC	85	Vss	109	NC	133	Vcc	157	VPP
14	DQ9	38	A10	62	NC	86	DQ32	110	Vcc	134	NC	158	DQ61
15	DQ10	39	A12	63	NC	87	DQ33	111	NC	135	NC	159	DQ62
16	DQ11	40	Vcc	64	NC	88	DQ34	112	WE1	136	DQ48	160	DQ63
17	DQ12	41	NC	65	DQ23	89	DQ35	113	CS1	137	DQ49	161	NC
18	Vcc	42	NC	66	NC	90	VPP	114	NC	138	Vss	162	Vss
19	DQ13	43	Vss	67	DQ24	91	DQ36	115	NC	139	DQ50	163	PD2
20	DQ14	44	OE	68	Vss	92	DQ37	116	Vss	140	DQ51	164	PD4
21	DQ15	45	A14	69	DQ25	93	DQ38	117	A1	141	DQ52	165	PD6
22	NC	46	A16	70	DQ26	94	DQ39	118	A3	142	DQ53	166	PD8
23	Vss	47	A18	71	DQ27	95	NC	119	A5	143	Vcc	167	NC
24	NC	48	NC	72	DQ28	96	Vss	120	A7	144	DQ54	168	Vcc

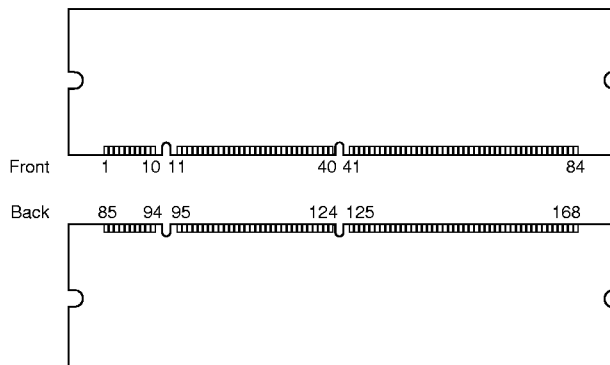
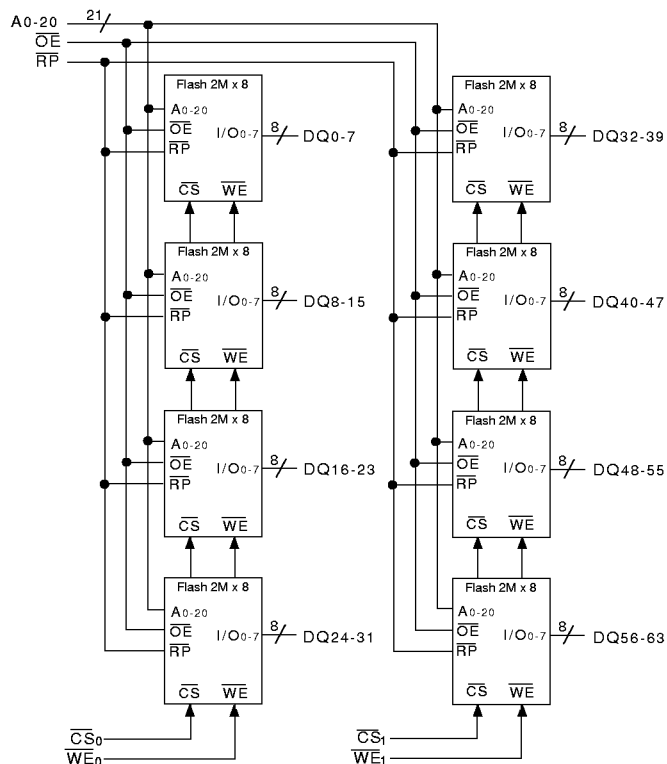
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Pin Description

DQ0-63	Data Inputs/Outputs
A0-20	Address Inputs
WE0	Write Enable (DQ0-31)
WE1	Write Enable (DQ32-63)
CS0	Chip Select (DQ0-31)
CS1	Chip Select (DQ32-63)
RP	Reset/Power-Down
OE	Output Enable
PD1-8	Presence Detect
Vcc	Power Supply
VPP	Programming Supply
Vss	Ground
NC	Not Connected

Presence Detect Pins

Pin	70ns	100ns
PD1	TBD	TBD
PD2	TBD	TBD
PD3	TBD	TBD
PD4	TBD	TBD
PD5	TBD	TBD
PD6	TBD	TBD
PD7	TBD	TBD
PD8	TBD	TBD

**PIN CONFIGURATION (continued)****BLOCK DIAGRAM FOR WPF286421-XB1SX****NOTE:**

1. $\overline{WP}$ input pins of all devices are connected to V_{cc} .
2. $\overline{CS}_1$, $3/5$, and $\overline{BYTE}$ input pins of all devices are connected to V_{ss} .
3. $\overline{RY}/\overline{BY}$ outputs of all devices are not connected.

**ORDERING INFORMATION**