SUPERMICRO
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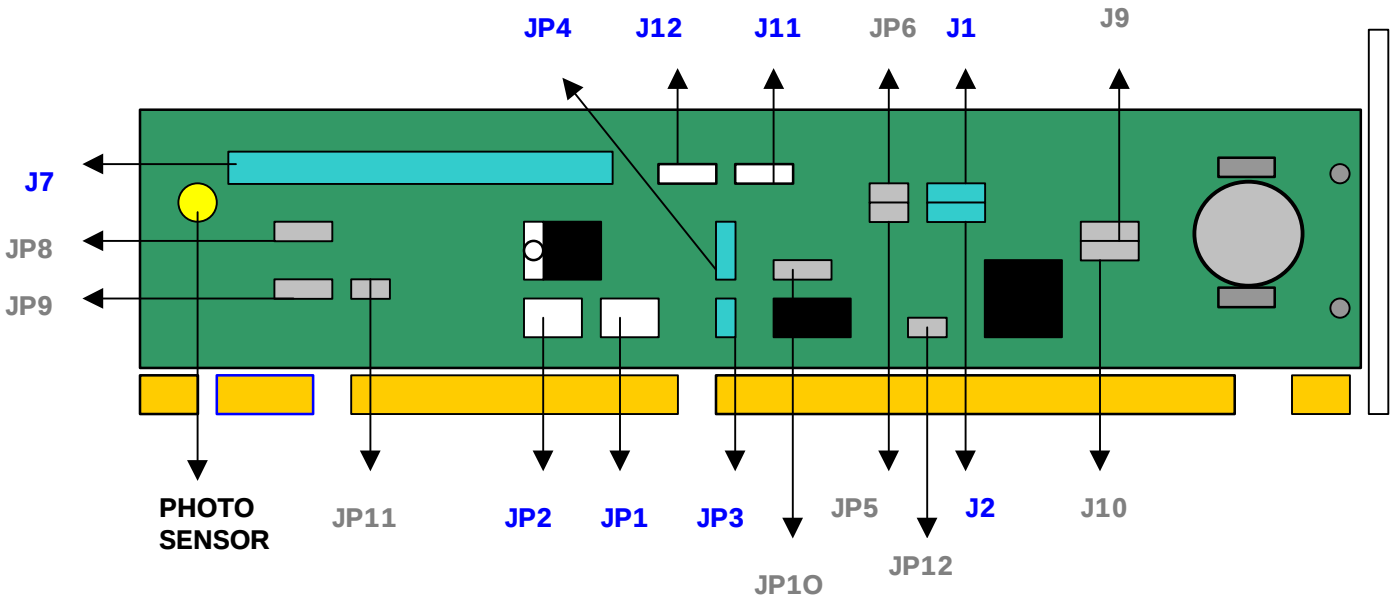
SUPER MICRO SERVER MANAGEMENT CARD FUNCTIONAL DESCRIPTION

Evaluation Board Functional Description:

The Super Micro System Management Module (SMM1) is design to monitor your PC system and alert users when hardware system resources are not stable

1. Chassis temperature sensing and intrusion detection.
2. Redundant Power Supply Failure detection, UPS active detection.
3. 5 positive voltage monitors (VCORE1, VOCRE2, 3.3V, 5V, 12V) and two negative voltage monitors (-5V, -12V)
4. Micro-switch detectors input
5. I^2C serial bus interface
6. Thermal Control Circuit to turn on/off Backup Fan at specific temperature.

Jumper Settings



The Grey Shaded jumpers will be obsolete in production

JP1	Over Heat FAN Connector
1	+12 V
2	GND

JP2	Over Heat Alarm Connector
1	+12 V
2	GND

JP3	Over Heat LED Connector
1	+12 V
2	GND

JP4	Over Heat Temperature Sensor Setting
1-2	50 degree C

2-3	**60 degree C**

JP5	**NMI_IRQ# (feed back to VID0 input)**
	For Debug purpose, will be obsolete in production

JP6	**SMI_OUT# (feed back to VID1 input)**
	For Debug purpose, will be obsolete in production

JP8	**UPS Active signal Polarity Select (will be obsolete)**
1-2	**Signal Active High**
2-3	**Signal Active Low**

JP9	**Redundant Power Supply Failure signal Polarity Select (will be obsolete)**
1-2	**Signal Active High**
2-3	**Signal Active Low**

JP10	**LM78 External Decode Address Select**
1-2	**For Debug purpose, will be obsolete in production**

JP11	**Chassis Micro Switch Input (feedback to VID2)**
	For Debug purpose, will be obsolete in production

JP12	**APC UPS ON (feedback to VID3)**
	For Debug purpose, will be obsolete in production

J1	LM78 NMI / IRQ Output Select
1-2	IRQ9
2-3	IRQ3

J2	LM78 SMI OUT# Output Select
1-2	IRQ5
2-3	IRQ7

J7	40-pin External Feature Connector		
Pin No.	Meaning	Pin No.	Meaning
1	CPU1 VCORE	2	CPU Over Heat
3	CPU2 VCORE	4	+3.3 V In
5	Reset Out #	6	SMI Out #
7	Power By Pass #	8	NMI_IRQ Out #
9	Tachometer 1 In	10	NC
11	NC	12	NC
13	Tachometer 1 In	14	Ground
15	Tachometer 2 In	16	I^2C Clock In
17	Tachometer 3 In	18	I^2C Data
19	NC	20	NC
21	NC	22	NC
23	CPU VID0	24	Ground
25	CPU VID1	26	Ground
27	CPU VID2	28	Ground
29	CPU VID3	30	Ground
31	CPU VID4	32	Ground

33	NC	34	Ground
35	NC	36	Ground
37	CPU Over Heat	38	Rednt Power Fail In
39	Micro Switch In #	40	UPS Active In

J9	Redundant Power Supply Failure In / - 12V selection
	For engineer debug purpose, will be obsolete in production

J10	UPS Active In / - 5V selection
	For engineer debug purpose, will be obsolete in production

J11	Tachometer FAN Connector 2
1	Ground
2	+12V
3	Tachometer output 2

J12	Tachometer FAN Connector 1
1	Ground
2	+12V
3	Tachometer output 1