

LSLSM01 Logic Solver

Intel Pentium Processor 1.5 GHz

■ Summary



*Processor	: Intel Pentium Processor (1.5 GHz)
*Main memory	: DDR4 SDRAM with ECC Capacity 3 GB
*User interface	
Indicator	: 4: PWR, STS, MOD, ACC
Switch	: 3 (1 point unused)
	CONT: unused
	RST: For hardware reset (Pushbutton type)
	ABO: For program abort (Pushbutton type)
SD card slot	: 1 (For software program)
USB connector	: 1 (For maintenance communication (mini-B))

LSLSM01 Logic Solver

Intel Pentium Processor 1.5 GHz

■ Specifications

ITEM		SPECIFICATION	
Main parts	Processor	Intel Pentium Processor (1.5 GHz)	
	Main memory	DDR4 SDRAM with ECC Capacity 3 GB	
	Flash memory	SPI Flash (16 MB + 32 MB)	
	FPGA	Xilinx Artix-7	
User interface	SD card slot	1 (For software program)	
	USB connector	1 (For maintenance communication (mini-B))	
Backplane interface	LVDS	LVDS communication (24 pair/100 Mbps)	
	I2C	1 ch (400 kHz)	
Indicator		4: PWR, STS, MOD, ACC	
Switch		3 (1 point unused): CONT (unused), RST, ABO	
Self-diagnostic functions		Watchdog timer error Clock error check Power supply error detection ECC (Error detection and correction)	
Cooling mechanism		Heatsink	
Hot swap		Possible	
Power supply	Voltage	DC 24 V \pm 20% The voltage supplied from the backplane	
	Power receiving system	Two systems (Match with a diode)	
Environmental conditions	Ambient temperature	(Operating) -5 to 60°C	(Storage) -45 to 85°C
	Ambient humidity	(Operating / Storage) 0 to 95% RH (No condensation)	
Current consumption		1.261 A (@ 24 V) *1	
Weight			200 g (Including heat sink)
			405 g (Includes CPU module and heat sink)
Dimensions		112 mm (D) x 177.8 mm (H) x 51.8 mm (W) (Except projection)	
Standard/Directive		EN 61131-2:2007, RoHS	

About compliant module type

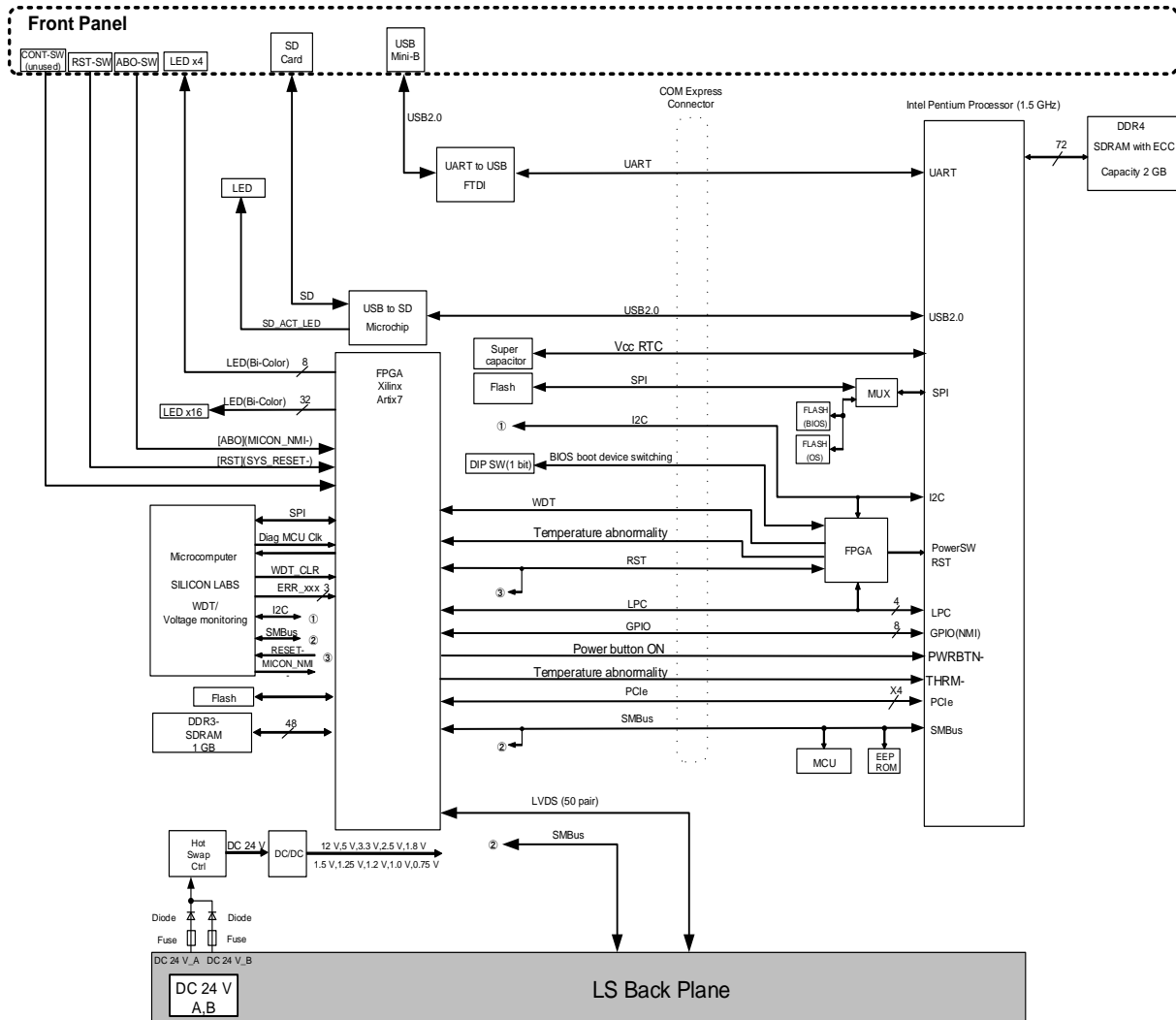
For compliant modules of this product, please refer to “Compliant backplane list (CGS-S9901-E-XX)”.



*1 This is the current consumption when the CPU module is mounted and it is operated at 100% CPU load ratio with Intel Thermal Tool at room temperature.

LSLSM01 Logic Solver

Intel Pentium Processor 1.5 GHz

Block diagram



LVDS	: Low Voltage Differential Signaling	SMBus	: System Management Bus
PCIe	: Peripheral Component Interconnect Express	GPIO	: General Purpose Input/Output
LPC	: Low Pin Count	RST	: Reset
WDT	: Watchdog Timer	I2C	: Inter-Integrated Circuit
SPI	: Serial Peripheral Interface	USB	: Universal Serial Bus
UART	: Universal Asynchronous Receiver Transmitter	MUX	: Multiplexer
MCU	: Micro Controller Unit	EER ROM	: Electrically Erasable Programmable Read-Only Memory
DDR4 SDRAM with ECC	: Double-Data-Rate4 Synchronous Dynamic Random Access Memory with Error Check and Correct	SD	: Secure Digital
LED	: Light Emitting Diode	COM Express	: Computer on Module Express
DIP SW	: Dual In-line Package Switch	BIOS	: Basic Input/Output System
Vcc RTC	: Voltage common collector Real-time Clock	MICON NMI	: Microcomputer Non Maskable Interrupt
Diag MCU Clk	: Diagnostics Micro Controller Unit Clock	DC/DC	: Direct Current/ Direct Current Converter
	: Diode		: Diode

When using, please read the instruction manual attached to the product carefully and use it properly.

This catalog may not be distributed or reproduced in whole or in part without permission.

Please be aware that due to product improvements and modifications, the product description in this catalog may differ in certain respects from the actual product.

DIASYS Netmation/DIASYS Netmation4S is a registered trademark of Mitsubishi Heavy Industries, Ltd.

The service names and product names of other companies described in this catalog are the trademarks or registered trademarks of each company.