

**NEW**

### Specifications

<b>Display</b>	LCD Size	15"	
	Resolution	1024x768	
	Brightness (cd/m <sup>2</sup> )	350	
	Contrast Ratio	700:1	
	Support Colors	16.2M/262K	
	Pixel Pitch (H/Vmm)	0.297x0.297	
	Viewing Angle	H: 150~170 degree V: 140~160 degree	
<b>Touch Panel</b>		5-wire resistive touch panel PCAP touch panel (optional)	
<b>System Processor</b>	CPU	Intel® Celeron® Processor J1900, DC Core, 10W	
	Frequency	2.0 GHz	
	L2 Cache	2MB	
	CPU Type	FCBGA1170	
	Chipset	SoC	
	BIOS	AMI	
<b>Memory</b>	Technology	Single-channel DDR3L SO-DIMM 1333MHz	
	Max. Capacity	Up to 8GB	
	Socket	2 x 204-pin SO-DIMM	
<b>Graphic</b>	Controller	Intel® HD Graphics	
	Graphic Memory	Shared system memory up to 224 MB SDRAM	
	Multiple Display	2 independent displays	
	Display Interface	VGA up to 2560 x 1600	
<b>Ethernet</b>	Controller	1 x Realtek 8111E VL-CG GbE LAN	
<b>Audio</b>	Controller	Realtek® ALC887 HD Audio Codec	
<b>H/W Monitor</b>	Watchdog Timer	256-level Watchdog Timer	
<b>Expansion Slot</b>	Mini-PCIe	1 x Full-size (for mSATA only) 1 x Half-size	
	SATA	1 x 2.5" HDD/SSD	
<b>I/O Interface</b>	mSATA	1 (optional)	
	RJ-45	1	
	Audio	1 x Line-out	
	USB	1 x USB 3.0 5 x USB 2.0	
	Serial	2 x RS-232/422/485 (D-Sub) 2 x RS-232 (RJ45 type) (all w/+5V/+12V selectable via BIOS)	
	PS/2	1	
	VGA	1	
	<b>Power Supply</b>	DC Input	DC-in 12V
		Operating Temperature	0 ~ 40°C (HDD) 0 ~ 50°C (SSD or mSATA)
	<b>Environment</b>	Operating Humidity	10 ~ 90%, non-condensing
Storage Temperature		-20°C ~ 80°C	
Storage Humidity		10 ~ 90%, non-condensing	
Vibration		Operating, 0.25 Grms, 5-300 Hz, 3 aes	
Shock		Operating, 3 G, half sine 11 ms	
Housing		SGCC, PC+ABS	
<b>Physical Characteristics</b>	MSR	3-Track MSR (USB)	
	iButton	iButton (USB)	
	2nd Display	8" without touch (USB)	
	Customer Display	VFD, 2 x 20 characters (COM)	
	Dimensions	365 x 340 x 208mm (W x H x D)	
	Weight	7 kg	
	Mounting	VESA mount(100)	
	<b>Certification</b>	EMC	FCC, CE, C-Tick, VCCI, BSMI
Safety		TUV, CB	
<b>Software Platform</b>	OS Support	Windows 7 (32/64-bit) Windows 8.1 (32/64-bit) Linux Kernel 3.11+	



### Features

- Intel® Celeron® Processor J1900, 2GHz
- True flat and IP65 waterproof front panel
- Easy maintenance design
- ESD protection up to 8KV contact and 10KV air
- Stylish / Slim ID Design
- All COM Ports with 5V/12V power selection in BIOS
- Plenty USB ports for more peripherals (USB 2.0\*5, USB 3.0\*1)

### Ordering Information

Part Number	Description
939-9A82-001	POS BAREBONE, FANLESS, MEMORY 4GB, BLACK, ADAPTER 12V/84W, USA POWER CORD.
939-9A82-002	POS BAREBONE, FANLESS, MEMORY 4GB, BLACK, ADAPTER 12V/84W, EU POWER CORD.

### Packing List

Part Number	Description
K33-3001002-I45 / K33-3001005-I45	USA Power Cord / EU Power Cord
S93-0401650-S14	12V/7A, 84W AC-DC Adapter

HMI Panel PC  
Embedded System Board  
Embedded Board  
Semi-rugged Terminal  
POS System  
COM Express Board  
Qseven Board  
Pico-ITX Board  
3.5" Board  
EPIC Board  
PICMG 1.0 Board  
Mini-ITX Board  
Micro-ATX Board  
ATX Board