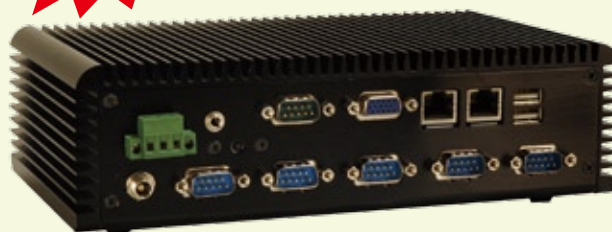


ECW-281B-D525/ECW-281B-8522W ECW-281B-945GSE/945GSE2

Embedded Fanless Solutions



Extended
temperature
model



Features

- ◆ ULV Intel® Celeron® M 1GHz fanless system
- ◆ Intel® Atom™ Processor N270 1.6GHz fanless system
- ◆ Four USB 2.0, six COM ports for peripheral devices
- ◆ Dual GbE LAN Ideal for high speed network application
- ◆ Storage support for both CompactFlash and SATA hard drive
- ◆ IEI One Key Recovery solution allows you to create rapid OS backup and recovery



Specifications

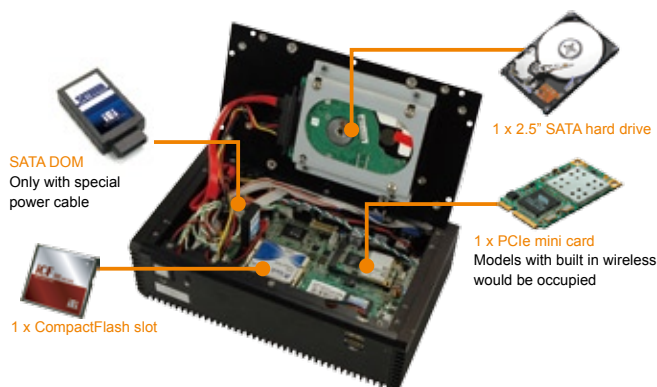
-20°C ~ +70°C

Model Name		ECW-281B-D525 (ECW-281B2-D525)	ECW-281B-8522W	ECW-281B-945GSE/945GSE2	ECW-281B-945GSE-WT
		Performace Fanless system solution	Low Power Fanless system solution		TANK
Platform		Intel®	Intel®	Intel®	Intel®
	Color	Black	Black	Black	Black
Chassis	Dimensions	229 x 132 x 64mm	229 x 132 x 64mm	229 x 132 x 64mm	229 x 132 x 64mm
	Chassis Construction	Aluminum alloy with heavy duty metal			
Motherboard	Motherboard Model	WAFFER-PV-D5252	WAFFER-8522	WAFFER-945GSE	WAFFER-945GSE
	M/B Size	3.5"	3.5"	3.5"	3.5"
	Processor CPU	Intel® Atom™ D525 Processor 1.8GHz /1MB L2 cache	Intel® Celeron™ M 1GHz	Intel® Atom™ N270 1.6GHz	Intel® Atom™ N270 1.6GHz
	Chipset	ICH8M	Intel® 852GM+ICH4	Intel® 945GSE + Intel® 82801GBM/ICH7M	
	System Memory	1G DDR3 204pin(up to 2GB)	512 MB /1GB DDR	1GB DDR2 200 pin	1 GB DDR2 200 pin
Storage	Hard Drive	1 x 2.5" SATA HDD	1 x 2.5"	1 x 2.5"	1 x 2.5"
	Compact Flash	1	1	1	1
System Function	USB	4	3	4	4
	Ethernet	2 x GbE	2 x GbE	2 x GbE	2 x GbE
	RS-232	5(4)	5	5(4)	5
	RS-232/422/458	1	1	1	1
	Display	1 (2) x VGA	1 x VGA	1 (2) x VGA	1 x VGA
	Resoluiton	2048 x1536 @ 60Hz	1920 x 1440 @ 60Hz	1920 x 1200 @ 60Hz	1920 x 1200 @ 60Hz
	Audio	1 x speaker out	1 x speaker out	1 x speaker out	1 x speaker out
	Wireless	1 x 802.11 b/g	N/A	1 x 802.11 b/g	N/A
	Mini-PCIe/PCI	1	N/A	1	1
Power	Wide Range Power in	9~36V DC (WD model)	9~36V DC (WD model)	9~36V DC (WD model)	N/A
	Power model	12VDC in with 60W power adapter	12VDC in with 60W power adapter	12VDC in with 60W power adapter	12VDC in
Reliability	Mounting	DIN mount, VESA 75 mount, wall mount			
	Operating Temperature	-10°C ~ 60°C with CompactFlash/SSD -10°C ~ 50°C with 2.5" HDD	0°C ~ 50°C	-10°C ~ 60°C with CompactFlash/SSD -10°C ~ 50°C with 2.5" HDD	-20°C ~ 70°C with CompactFlash/SSD
	Operating Shock	Half sine wave 3G; 11ms 3axis	Half sine wave 3G; 11ms 3axis	Half sine wave 3G; 11ms 3axis	Half sine wave 3G; 11ms 3axis
	Operating Vibration	MIL-STD-810F 514.5C-1 / MIL-STD-810F 514.5C-2			MIL-STD-810F 514.5C-2
	Weight (Net/Gross)	2.1kg/3.9kg	2.1kg/3.9kg	2.1kg/3.9kg	2.1kg/3.9kg
Certification	EMC/Safety	CE, FCC class A, UL	CE, FCC class A	CE, FCC class A	CE, FCC class A

*Optional items

**The system that with Hard drive can pass the Standard testing MIL-STD-810F 514.5C-1. and with SSD/CF can pass MIL-STD-810F 514.5C-2

Storage & Expansions



9 VDC ~ 36 VDC Input DC-DC Module

ECW-281B series can accept 9~36VDC input by installing a DC-to-DC power module.

IDD-936260A

Input range: 9-36VDC
Output: 12 V @ 3 A (Max.)
5 V @ 10 A (Max.)
5 VSB @ 0.5 A (Max.)

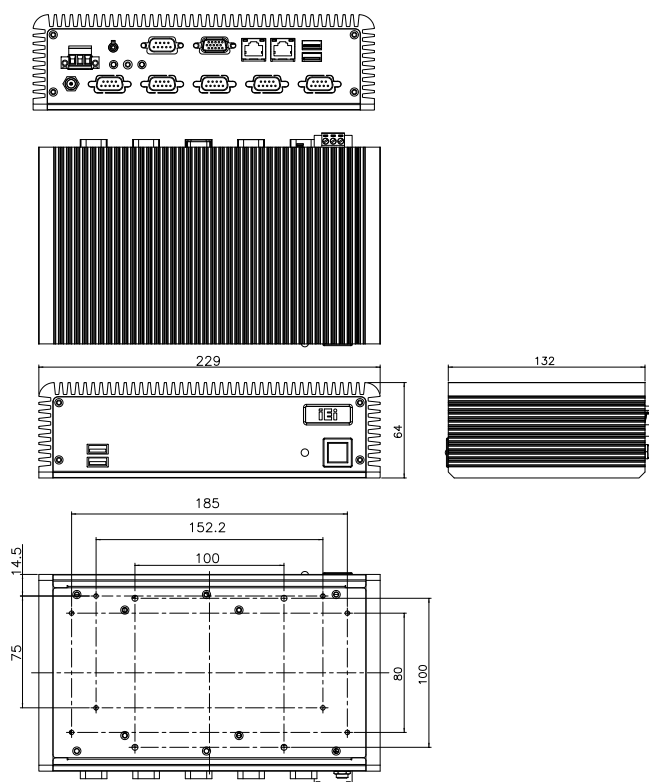


ECW-281B has two power input interfaces:
3-pin terminal block or DC power jack.

ECW-281B-945GSE series Key Spec Comparison

	ECW-281B-945GSE	ECW-281B-945GSE2
Main board	WAFER-945GSE-N270	
Display 1	CRT interface integrated in 945GSE with one VGA port Resolution support up to 2048 x 1536 Resolution adjustable by OS By LVDS with LVDS-VGA-R10 Resolution support: 800 x 600, 1024 x 768 Resolution adjustable by BIOS only	
Display 2	N/A	
COM port	6 x RS-232	5 x RS-232

Dimensions (unit:mm)



Packing List

1 x QIG	1 x User manual CD
1 x Screw set	1 x Power adaptor (optional for WD models)
1 x Wall mount kit	1 x Power cord (optional for WD models)
1 x Hard drive thermal pad	1 x 2dbi wireless antenna (for wireless model only)
1 x Driver CD	

Ordering Information

12VDC input

Part No.	Description
ECW-281B-R20/8522/512MB	Embedded system with WAFER-8522, Celeron M 1G zero cache, FSB 400MHz, dual PCIe GbE, w/512MB DDR400 memory, 12VDC in, 60W adapter with ERP and PSE certificates, black, RoHS
ECW-281B-R20/8522/1GB	Embedded system with WAFER-8522, Celeron M 1G zero cache onboard, FSB 400MHz, dual PCIe GbE, w/1GB DDR400 memory, 12VDC in, 60W adapter with ERP and PSE certificates, black, RoHS
ECW-281B-R20/N270/1GB	Fanless embedded system with Intel® Atom™ N270 1.6GHz CPU, 945GSE, built-in 1GB DDR2 memory, 12VDC in, 60W power adapter with ERP and PSE certificates, black, RoHS
ECW-281BW-R20/N270/1GB	Fanless embedded system with Intel® Atom™ N270 1.6GHz CPU, 945GSE, built-in 802.11b/g wireless, with 1GB DDR2 memory, 12VDC in, 60W power adapter with ERP and PSE certificates, black, RoHS
ECW-281B2-R20/N270/1GB	Fanless embedded system with Intel® Atom™ N270 1.6GHz CPU, 945GSE, dual VGA, built-in 1GB DDR2 memory, 12VDC in, with 60W power adapter with ERP and PSE certificates, black, RoHS
ECW-281B2W-R20/N270/1GB	Fanless embedded system with Intel® Atom™ N270 1.6GHz CPU, 945GSE, dual VGA, built-in 802.11b/g wireless, with 1GB DDR2 memory, 12VDC in, 60W adapter with ERP and PSE certificates, black, RoHS
ECW-281B-WT-R10/N270/1GB	Extend temperature fanless embedded system with Intel® Atom™ N270 1.6GHz CPU, 945GSE, built-in 1GB DDR2 memory, 12VDC in, w/o power adapter, -20~70 degree, black, RoHS

9-36VDC input

ECW-281BWD-R20/8522/512MB	Embedded system with WAFER-8522, Celeron M 1G zero cache onboard, FSB 400MHz, dual PCIe GbE, w/512MB DDR400 memory, 9-36VDC in, w/o adapter, black, RoHS
ECW-281BWD-R20/8522/1GB	Embedded system with WAFER-8522, Celeron M 1G zero cache onboard, FSB 400MHz, dual PCIe GbE, w/1GB DDR400 memory, 9-36VDC in, w/o adapter, black, RoHS
ECW-281BWD-R20/N270/1GB	Fanless embedded system with Intel® Atom™ N270 1.6GHz CPU, 945GSE, built-in 1GB DDR2 memory, 9-36VDC in, w/o power adapter, black, RoHS
ECW-281BWDW-R20/N270/1GB	Fanless embedded system with Intel® Atom™ N270 1.6GHz CPU, 945GSE, built-in 802.11b/g wireless, with 1GB DDR2 memory, 9-36VDC in, w/o power adapter, black, RoHS
ECW-281B2WD-R20/N270/1GB	Fanless embedded system with Intel® Atom™ N270 1.6GHz CPU, 945GSE, dual VGA, built-in 1GB DDR2 memory, 9-36VDC in, w/o power adapter, black, RoHS
ECW-281B2WDW-R20/N270/1GB	Fanless embedded system with Intel® Atom™ N270 1.6GHz CPU, 945GSE, dual VGA, built-in 802.11b/g wireless, with 1GB DDR2 memory, 9-36VDC in, w/o power adapter, black, RoHS

Embedded OS

ECWCF-281B-945GSE-XPE	Windows XP Embedded OS image, for ECW-281B-945GSE, with 1GB compactFlash memory card, RoHS
ECWCF-281B-945GSE-CE060	Windows CE 6.0 OS image, for ECW-281B-945GSE, with 128MB compactFlash memory card, RoHS