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Datasheet

iBASE

IB818

3,5" Single-Board Computer with Intel® Atom™ Apollo Lake

Pentium® N4200, Celeron® N3350 und Atom™ E39xx Processor,

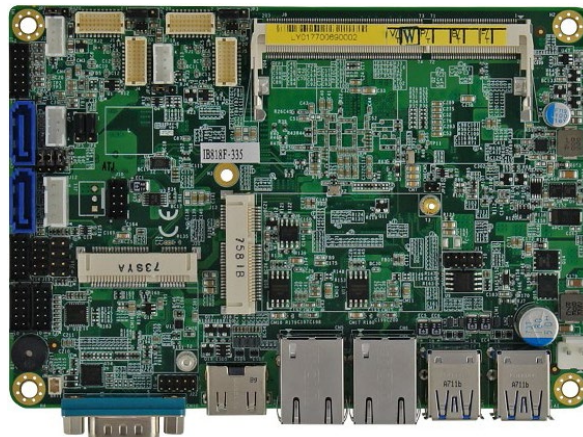
2x 24-bit Dual Channel LVDS for two independent TFT Displays, 1x HDMI, COMs, up to -40°..+85°C

Custom Version DI-IB818F-J3455_A0 (PC-61-165):

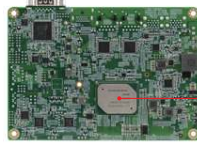
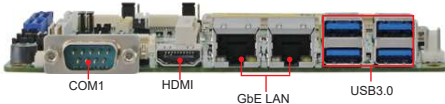
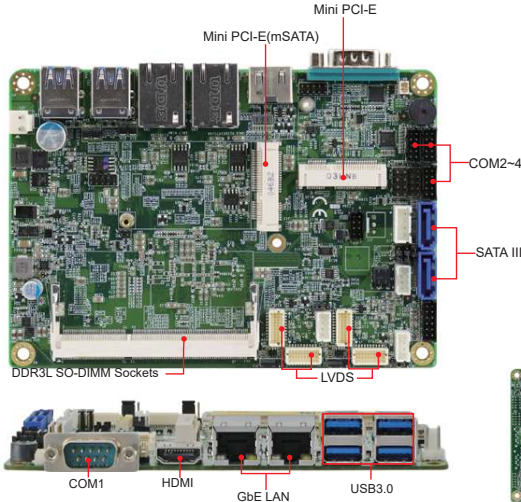
-Wake on Time

-1x 24-bit Dual Channel LVDS

- LVDS Brightness Control via Windows Slider



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Features

- Onboard Intel® Atom® x7-E3950/ x5-E3940/ x5-E3930 SoC [i-Temp support]
- Onboard Intel® Pentium® N4200/ Celeron® N3350/ J3455
- 1x DDR3L-1866 SO-DIMM, Max. 8GB
- Supports HDMI 1.4b, **Dual LVDS(18/24bit)**
- 2x Intel® I210IT PCI-E Gigabit LAN or I211AT PCI-E Gigabit LAN
- Watchdog timer, Digital I/O, mSATA, EuP/ErP
- 4x USB 3.0, 2x USB 2.0, 4x COM, 2x SATA III
- 1x Mini PCI-E slot (full-size), 1x Mini PCI-E slot (half-size)
- Wide-range operating temperature in certain models

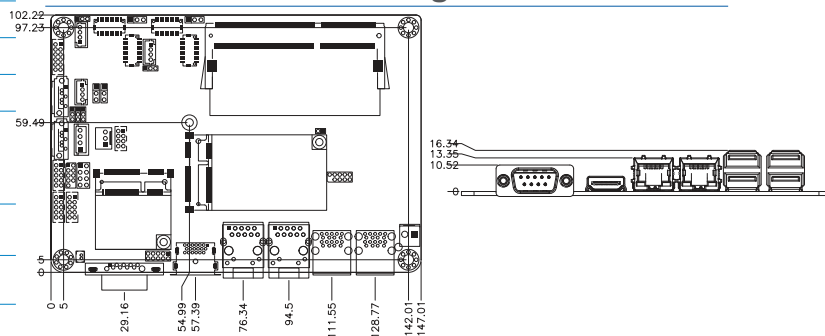
Specifications

CPU	Intel® Atom® QC x7/ E3950 (1.6~2.0 GHz) Intel® Atom® QC x5/ E3940 (1.6 GHz~1.8GHz) Intel® Atom® DC x5/ E3930 (1.3 GHz~1.8GHz) Intel® Pentium® QC N4200 (1.1~2.5 GHz) Intel® Celeron® DC N3350 (1.1 ~ 2.4 GHz) Intel® Celeron® QC J3455 (1.5~ 2.3 GHz)
PCH	Integrated in Intel® SoC
Memory Type	1x DDR3L SO-DIMM, Max 8GB (Non-ECC)
BIOS	AMI
Watchdog Timer	256 levels
H/W Monitor	Yes
Storage Device Interface	1x mSATA (Via full-size Mini PCI-E)
Mini Type Slots	2x Mini PCI-E (1x full-size, 1x half-size)
Graphics Controller	Intel® SoC integrated Gen9 18EUs graphics
Video Output	Supports HDMI(1.4b), Dual LVDS (18/24bit)
Ethernet	IB818F-I50 2x Intel® I210IT PCI-E Gigabit LAN IB818F-420/335: 2x Intel® I211AT PCI-E Gigabit LAN
I/O Chip	Fintek F81964D-1
Serial Port	1x RS232/422/485 (Jumper-less selection) 3x RS232
USB 2.0	2x USB 2.0 via pin-header
USB 3.0/ 3.1	4x USB 3.0 on board
Serial ATA	2x SATA III
Audio	Intel® Atom® SoC built-in HD audio controller + Realtek ALC283 Codec w/ class-D speaker amplifier
TPM	TPM2.0
Others	Digital I/O, +12V~+24V DC-in, EuP/ErP
Dimensions (L x W)	102 x 147 mm (4" x 5.8")
Power Consumption	Intel® Atom® E3950, 1.6GHz w/ 8GB DDR3L +12V: 1.09A Intel Pentium N4200, 1.1GHz w/ 8GB DDR3L +12V: 1.09A
Operating Temperature	E3950: -40°C~+85°C (-40°F~185°F) N4200/N3350: 0°C~+60°C (32°F~140°F)
Storage Temperature	-40°C~90°C (-40°F~194°F)
Relative Humidity	90% (non-condensing @60°C)

Ordering Information

PC-61-165 DI-IB818F-J3455_A0 Custom Version	Intel® Celeron® J3455 (1.5GHz/2.3GHz) 3.5-inch Disk Size SBC w/ dual GbE LAN, HDMI, 1x LVDS (18/24-bit LVDS Dual channel), EuP/ErP, 12V~24V DC-in, Wake on Time
IB818F-I50	Intel® Atom®x7/ E3950 (1.6GHz~2.0 GHz) 3.5-inch Disk-Size SBC w/ dual GbE LAN, HDMI, 2x LVDS (18/24-bit LVDS dual-channel), EuP/ErP, 12V~24V DC-in, wide temp support
IB818F-I40	Intel® Atom®x7/ E3940 (1.6GHz~1.8 GHz) 3.5-inch Disk-Size SBC w/ dual GbE LAN, HDMI, 2x LVDS (18/24-bit LVDS dual-channel), EuP/ErP, 12V~24V DC-in, wide temp support
IB818F-I30	Intel® Atom®x7/ E3930 (1.3GHz~1.8 GHz) 3.5-inch Disk-Size SBC w/ dual GbE LAN, HDMI, 2x LVDS (18/24-bit LVDS dual-channel), EuP/ErP, 12V~24V DC-in, wide temp support
IB818F-420	Intel® Pentium® N4200 (1.1GHz~2.5GHz) 3.5-inch Disk-Size SBC w/ dual GbE LAN, HDMI, 2x LVDS (18/24-bit LVDS dual-channel), EuP/ErP, 12V~24V DC-in
IB818F-335	Intel® Celeron® N3350 (1.1GHz~2.4GHz) 3.5-inch Disk-Size SBC w/ dual GbE LAN, HDMI, 2x LVDS (18/24-bit LVDS dual-channel), EuP/ErP, 12V~24V DC-in
IB818F-J3455	Intel® Celeron® J3455 (1.5GHz/2.3GHz) 3.5-inch Disk Size SBC w/ dual GbE LAN, HDMI, 2x LVDS (18/24-bit LVDS Dual channel), EuP/ErP, 12V~24V DC-in
HSIB818-I	Heatsink for IB818-I50/I40/I30
HSIB818	Heatsink for IB818-420/335/J3455
HSIB818-I-1	Heat Spreader for IB818-I50/I40/I30
HSIB818-1	Heat Spreader for IB818-420/335/J3455
IB76A-2	Cable kit w/ USB, COM, Power, SATA+Power

Dimensions and Drawing



Remarks: 1. Specifications are subject to change without prior notice. 2. ODM/OEM is available. 3. For user's manual & datasheet download, visit www.ibase.com.tw.



Our company network supports you worldwide with offices in Germany, Austria, Switzerland, the UK and the USA. For more information please contact:

Headquarters

Germany



FORTEC Elektronik AG

Augsburger Str. 2b
82110 Germering

Phone: +49 89 894450-0
E-Mail: info@fortecaq.de
Internet: www.fortecaq.de

Fortec Group Members

Austria



Distec GmbH Office Vienna

Nuschinggasse 12
1230 Wien

Phone: +43 1 8673492-0
E-Mail: info@distec.de
Internet: www.distec.de

Germany



Distec GmbH

Augsburger Str. 2b
82110 Germering

Phone: +49 89 894363-0
E-Mail: info@distec.de
Internet: www.distec.de

Switzerland



ALTRAC AG

Bahnhofstraße 3
5436 Würenlos

Phone: +41 44 7446111
E-Mail: info@altrac.ch
Internet: www.altrac.ch

United Kingdom



Display Technology Ltd.

Osprey House, 1 Osprey Court
Hinchingsbrooke Business Park
Huntingdon, Cambridgeshire, PE29 6FN

Phone: +44 1480 411600
E-Mail: info@displaytechnology.co.uk
Internet: www.displaytechnology.co.uk

USA



Apollo Display Technologies, Corp.

87 Raynor Avenue, Unit 1
Ronkonkoma, NY 11779

Phone: +1 631 5804360
E-Mail: info@apolloDisplays.com
Internet: www.apolloDisplays.com