

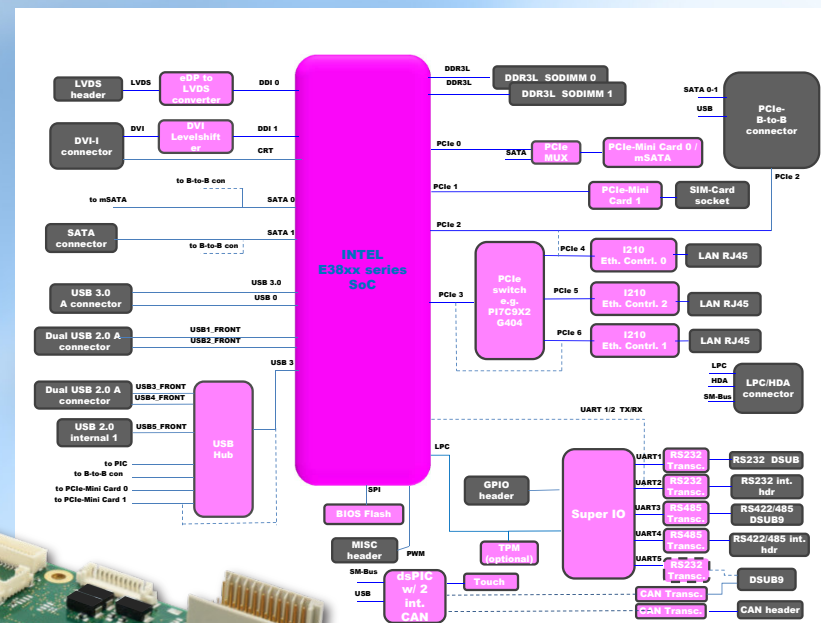
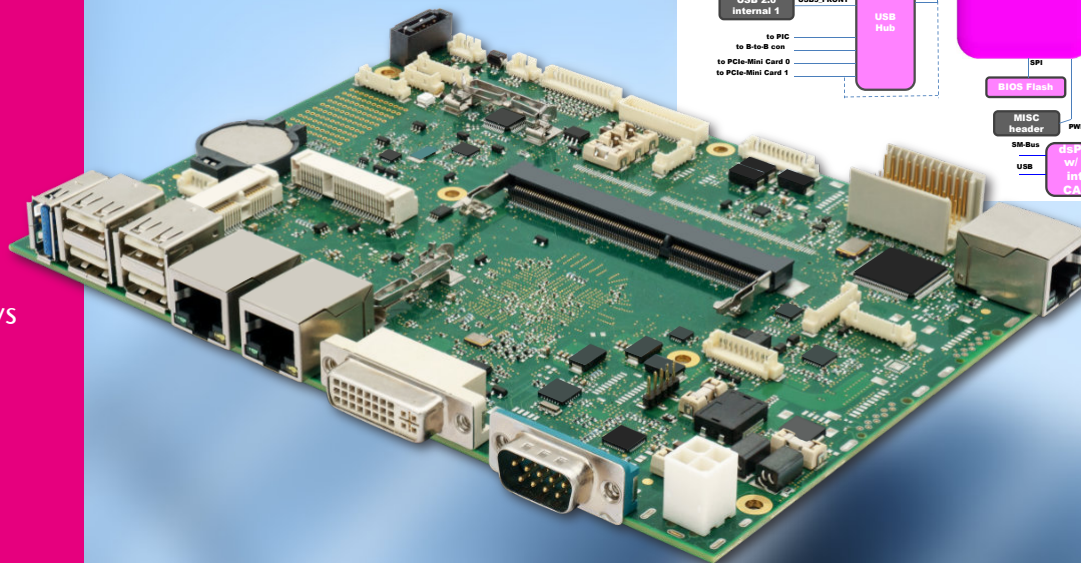
# PROFIVE® F38



## APPLICATIONS

Designed for fanless applications, the **PROFIVE® F38** single board computer finds its field of work in stationary and mobile devices.

- \_ Rugged Industrial Systems
  - no rotating parts, low power
- \_ Medical Solutions
  - Intel® Atom™ performance, high-resolution graphics
- \_ Automatic Control
  - scalable, long term availability, flexible expansion
- \_ Measurement
  - Multiple Graphics
- \_ Public Terminal
  - Digital Signage, Multiple Displays support



HIGH QUALITY  
MADE IN GERMANY

15 years  
long life  
support<sup>1</sup>

E.E.P.D.   
...just embedded!

# Panel-Board 135x180

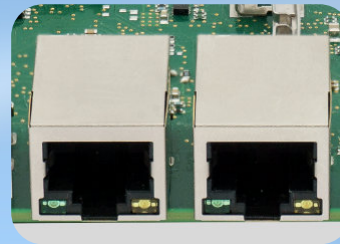
## SPECIFICATIONS

CPU	Intel® Atom™ processors E38x series Single, Dual (opt.) and Quad Core <sup>1</sup>
BIOS	UEFI-BIOS
Max. memory	Up to 8 GB DDR3L / up to 667 MHz
Gigabit Ethernet	Up to 3 Intel® I210 with IEEE1588
PCI Express® Mini Card	Up to 2 fullsize sockets; 1 with SIM Card socket and 1 mSATA
SD-Card	1 MicroSD-Card socket
Serial ATA	Up to 2 ports
USB ports	Up to 6 USB 2.0   1 USB 3.0
COM ports	3 RS-232 2 RS-422/485
CAN bus	up to 2 ports (optional)
SM bus	Yes
LVDS connector	1 dual channel 24-bit with backlight connector, up to 1920 x 1200 @ 60 Hz
DVI-I connector	Yes, up to 1920 x 1200 @ 60 Hz; VGA support
Sound	4-channel HDA and headphone connector
Touch controller	Supports 4- and optional 8-wire touch panels
Other	GPIO   PWM   IRDA   TPM (optional)
Health monitoring and management	Controllable fan, hardware monitoring, backlight control and watchdog
Power supply	Min. 8 V / Max. 32 V (DC), internal power or optional 4-pin Mini DIN power
Max. operating temp.	0 °C to +60 °C ambient or 0 °C to +70 °C at any point on the surface -40 °C to +85 °C ambient ind. grade (optional)
Max. storage temp.	-20 °C to +105 °C
Max. rel. humidity	95 % @ 40 °C, non-condensing
Fanless	Designed for fanless operation
Size approx.	180 mm x 135 mm
OS support	Microsoft® Windows® 10; Microsoft® Windows® 10 IoT Enterprise; Linux (Ubuntu 18.04 LTS Yocto Project 2.5.1)

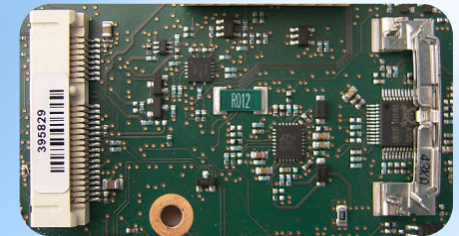
<sup>1</sup>15 years availability according to CPU manufacturers specification

Ordering Code CPU	Description	Type
F38LC	SBC	E3815 / 1.46 GHz / 512 KB cache / 1 RAM / 2 GbE
F38HC	SBC	E3845 / 1.91 GHz / 2 MB cache / 2 RAM / 3 GbE

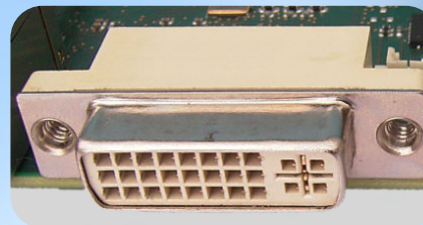
Ordering Code Memory	Description	Size
2GB-F38	Main Memory	2 GB
4GB-F38	Main Memory	4 GB
8GB-F38	Main Memory	8 GB



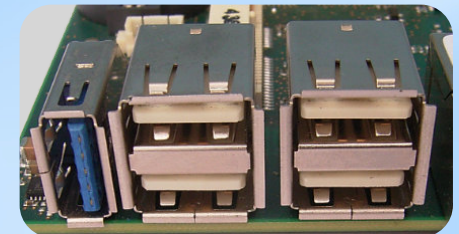
Gigabit Ethernet



PCI Express® Mini Card



DVI-I Connector



USB Ports

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#### LIFE SUPPORT APPLICATIONS

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