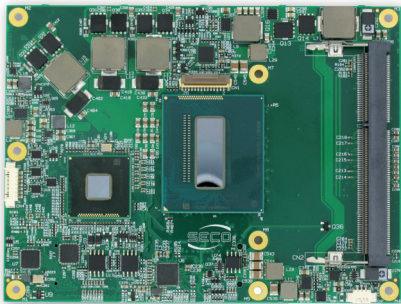




## COMe-953-BT6 COM Express® Basic Type 6 Module with Intel® Haswell family CPUs

High performance for any design in a scalable form factor



### HIGHLIGHTS

<b>CPU</b> Intel® Haswell family CPUs	<b>CONNECTIVITY</b> 4x USB 3.0; 8x USB 2.0; 7x PCI-e x1
<b>GRAPHICS</b> Integrated Intel® HD Graphics 4600	<b>MEMORY</b> Up to 16GB DDR3L-1600 on two SO-DIMM slots



### MAIN FIELDS OF APPLICATION



Biomedical/  
Medical devices



Digital Signage -  
Infotainment



HMI



Gaming

### FEATURES

<b>Processor</b>	Intel® Core™ <b>i3-4100E</b> , Dual Core with HT @ 2.4GHz, 3MB Cache, 37W TDP Intel® Core™ <b>i3-4102E</b> , Dual Core with HT @ 1.6GHz, 3MB Cache, 25W TDP Intel® Core™ <b>i5-4400E</b> Dual Core with HT @ 2.7GHz, 3MB Cache, 37W TDP Intel® Core™ <b>i5-4402E</b> Dual Core with HT @ 1.6GHz, 3MB Cache, 25W TDP Intel® Core™ <b>i7-4700EQ</b> Quad Core with HT @ 2.4GHz, 6MB Cache, 47W TDP Intel® Celeron® <b>2002E</b> Dual Core @1.5GHz, 2MB Cache, 25W TDP Intel® Celeron® <b>2000E</b> Dual Core @2.2GHz, 2MB Cache, 37W TDP	<b>USB</b>	8 x USB 2.0 Host ports 4 x USB 3.0 Host ports
<b>Max Cores</b>	4	<b>PCI-e</b>	7 x PCI-e x1 lanes (configurable as 1 PCI-e x4 + 3 PCI-e x1)
<b>Chipset</b>	Intel® QM87 Chipset	<b>Audio</b>	HD Audio interface
<b>Memory</b>	Up to 16GB 1.35V DDR3L-1600 on two SO-DIMM slots, supporting Dual-Channel M953 modules support non-ECC SO-DIMMs only, MB28 modules support ECC modules only	<b>Serial Ports</b>	2 x serial ports (Tx/Rx only, TTL interface) (MB28 module only)
<b>Graphics</b>	Integrated Intel® HD Graphics Up to 3 independent displays supported DirectX® 11, OpenGL4.0 supported	<b>Other Interfaces</b>	2 x Express Card interfaces I2C Bus LPC Bus SM Bus 4 x GPI, 4 x GPO Thermal / FAN management Watch Dog timer Optional TPM on-board (M953 modules only) Power Management Signals
<b>Video Interfaces</b>	3 x HDMI / DVI / Multimode Display Port interfaces embedded Display Port or 18 / 24 bit single / dual channel LVDS interface CRT interface PCI Express Graphics (PEG) x 16 interface	<b>Power Supply</b>	+12V <sub>DC</sub> ± 10% and + 5V <sub>SB</sub> (optional)
<b>Video Resolution</b>	CRT Interface: up to 1920 x 1200 @ 60Hz HDMI: up to 4096x2304 @ 24Hz / 2560x1600 @ 60Hz DVI: up to 1920x1200 @ 60Hz Display Port: up to 3840 x 2160 @ 60Hz LVDS, eDP: up to 1920 x 1200 @ 60Hz	<b>Operating System</b>	Microsoft® Windows 7 (32/64 bit) Microsoft® Windows 8 (32/64 bit) Microsoft® Windows 8.1 (32/64 bit) Microsoft® Windows 10 (32/64 bit) Microsoft® Windows 10 IoT Microsoft® Windows Embedded Standard 7 (32/64 bit) Linux
<b>Mass Storage</b>	4 x external SATA channels	<b>Operating Temperature*</b>	0°C ÷ +60°C (Commercial version)
<b>Networking</b>	Gigabit Ethernet interface Supports remote management (Intel® AMT Technology)	<b>Dimensions</b>	125 x 95 mm (4.92" x 3.74")

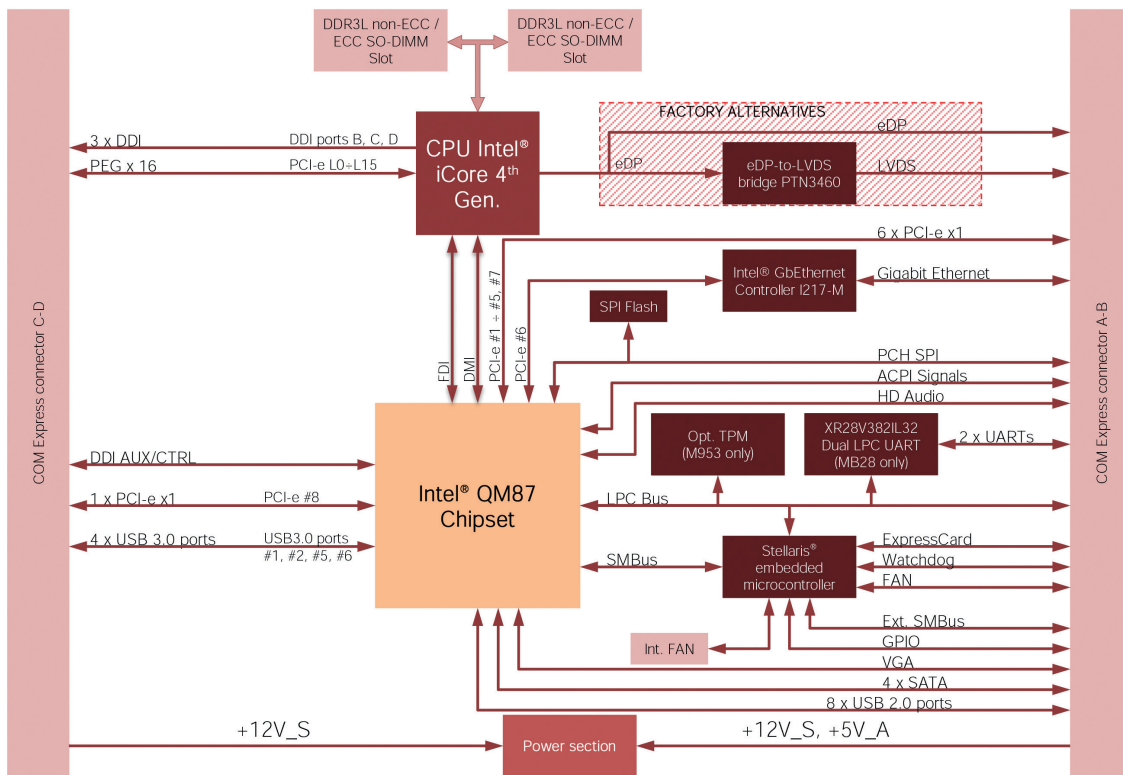
\*Measured at any point of SECO standard heatspreader for this product, during any and all times (including start-up). Actual temperature will widely depend on application, enclosure and/or environment. Upon customer to consider application-specific cooling solutions for the final system to keep the heatspreader temperature in the range indicated.



# COMe-953-BT6

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### BLOCK DIAGRAM



Information subject to change. Please visit [www.seco.com](http://www.seco.com) to find the latest version of this datasheet.

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