

# eDM-COMB-BW6



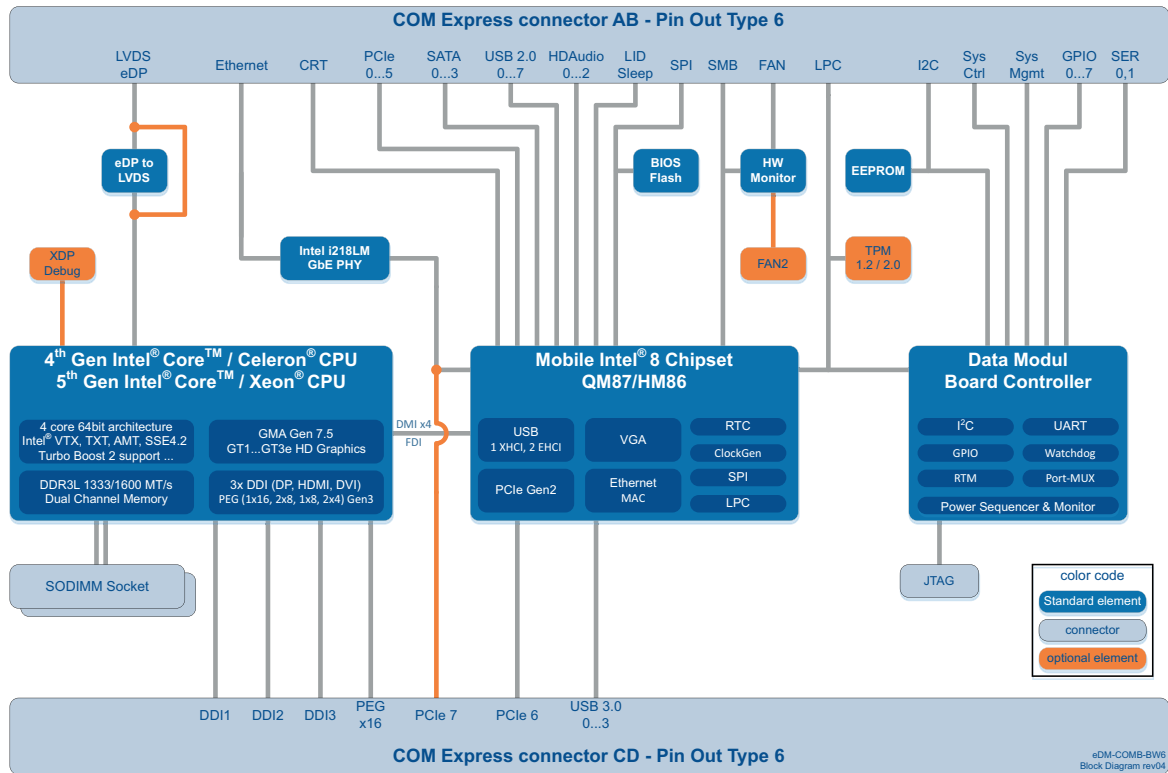
## Features

- » *COM Express® Basic Size (95 x 125 mm), Type 6 Connector Layout*
- » *5th Generation Intel® Core™ i7 and Xeon® E3-12xx processor (formerly codename Broadwell-H)*
- » *3 x DDI channels, LVDS/eDP and VGA, supports up to 3 independent displays up to 4k resolution*
- » *Up to Intel® Iris™ Pro Graphics P6300*

# Technical Information

Formfactor	COM Express™ Basic, (95 x 125 mm), Type 6 Connector Layout
CPU	<p>Intel® Core™ i7-5850EQ 2.7 GHz/3.4GHz (Turbo), 4C/GT3e, 6 MB L2 Cache, TDP 47W   37W            Intel® Core™ i7-5700EQ 2.6 GHz/3.4 GHz (Turbo), 4C/GT2, 6 MB L2 Cache, TDP 47W   37W            Intel® Xeon® E3-1278LV4 2.0 GHz/3.3 GHz (Turbo), 4C/GT3e, 6 MB L2 Cache, TDP 47W            Intel® Xeon® E3-1258LV4 1.8 GHz/3.2 GHz (Turbo), 4C/GT2, 6 MB L2 Cache, TDP 47W            Intel® Core™ i5-4422E 1.8 GHz/2.9 GHz (Turbo), 2C/GT2, 3 MB L2 Cache, TDP 25W            Intel® Core™ i3-4110E 2.6 GHz, 2C/GT2, 3 MB L2 Cache, TDP 37W            Intel® Celeron®2002E 1.5 GHz, 2C/GT1, 2 MB L2 Cache, TDP 25W</p> <p>Supports: Intel® VT, Intel® TXT, Intel® SSE4.2, Intel® HT Technology, Intel® 64 Architecture, Execute Disable Bit, Intel®Turbo Boost Technology 2.0, Intel® AVX2, Intel® AES-NI, PCLMULQDQ Instruction, Intel® Secure Key and Intel® TSX, Integrated Intel® HD Graphics 6000 series</p>
Memory	2 x SO-DIMM Socket: DDR3L up to 32GByte (1600MT/s)
Chipset	Mobile Intel® 8 Series Chipset: Intel® QM87 for Intel® Core™ CPUs / HM86 for Celeron variants
Graphics	<p>Next Generation Intel® HD Graphics (GT1..GT3e) with OpenCL 2.0, OpenGL 4.3 and DirectX11.2 up to 3 independent displays with up to 4k resolution: HDMI 1.4, DVI, DisplayPort 1.2            High performance hardware MPEG-2 decoding, WMV9 (VC-1) and H.264 (AVC)            Playback of high definition content including Blu-ray Disc</p>
Display Interfaces	<p>3x DDI (DP++, HDMI, DVI) / up to 4k resolution            1 x VGA            1 x Dual Channel 24 Bit LVDS up to 1920 x 1200 Pixel (optional eDP up to 4k resolution)</p>
Ethernet	Intel® I218-LM GbE LAN Controller with AMT 10 support
I/O Interfaces	<p>4x USB 3.0 (XHCI) , 8 x USB 2.0 (EHCI), 2 x UART (COM1/2)            7x PCIe Gen 2.0 (5GT/s), 1x8/2x8/1x4/2x4, 1x PEG x16 Gen 3.0 (8GT/s)            4 x SATA (6Gb/s), RAID 0,1,5,10 support, Rapid Storage Technology, Smart Response Technology            LPC Bus / TPM1.2 / TPM2.0 / GPIOs / SMB 2.0 / I²C Bus            SPI for onboard/external Flash            Intel HD Audio</p>
DM Board Controller	Multi Stage Watchdog, UART, GPIO, I²C Bus, RTM, Port-Mux, Manufacturing and Board Information, Power Sequencer & Monitor
Power Type	VCC: +12 V (+/-5%), 5V_SB: 5V (+/-5%), Mode: ATX Mode, VCC only without 5V_SB
Operating Systems	Microsoft® Windows 10, Win 7 (32bit and 64bit), Win 8.X, Win Embedded 7 Standard (WES7), Win Embedded 8 Standard (WES8), Win Embedded Compact 7 (WEC7), Win Embedded Compact 2013 (WEC2013), Linux
Security	Optionally Trusted Platform Module: TPM 1.2 /TPM 2.0
Operating Temperature	Operating: 0°C ... +60°C , -40°C ... +85°C (on request), Storage: -20°C ... +80°C
Humidity Operating	Operating: 5 - 90% RH non-condensing, Storage: 5 - 95% RH non-condensing

# Block Diagramm



# Ordering Information

Model Name	Part Nr.	Description
eDM-COMB-BW -i7-5850EQ	12017850	COM Express Type 6 Basic module with Intel <sup>®</sup> Core <sup>™</sup> i7-5850EQ
eDM-COMB-BW -i7-5700EQ	12017680	COM Express Type 6 Basic module with Intel <sup>®</sup> Core <sup>™</sup> i7-5700EQ
eDM-COMB-BW-E3-1278LV4	12017852	COM Express Type 6 Basic module with Intel <sup>®</sup> Xeon <sup>®</sup> E3-1278L v4
eDM-COMB-BW-E3-1258LV4	12017861	COM Express Type 6 Basic module with Intel <sup>®</sup> Xeon <sup>®</sup> E3-1258L
eDM-COMB-BW- i5-4422E	12017862	COM Express Type 6 Basic module with Intel <sup>®</sup> Core <sup>™</sup> i5-4422E
eDM-COMB-BW- i3-4110E	12017691	COM Express Type 6 Basic module with Intel <sup>®</sup> Core <sup>™</sup> i3-4110E
eDM-COMB-BW-Celeron-2002E	12014686	COM Express Type 6 Basic module with Intel <sup>®</sup> Celeron <sup>™</sup> 2002E

## Accessories

eDM-COMB-BW -CF	12017847	Standard Cooling solution with fan
eDM-COMB-BW -CP	12017848	Standard cooling solution passive

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