

eDM-COMB-KL6

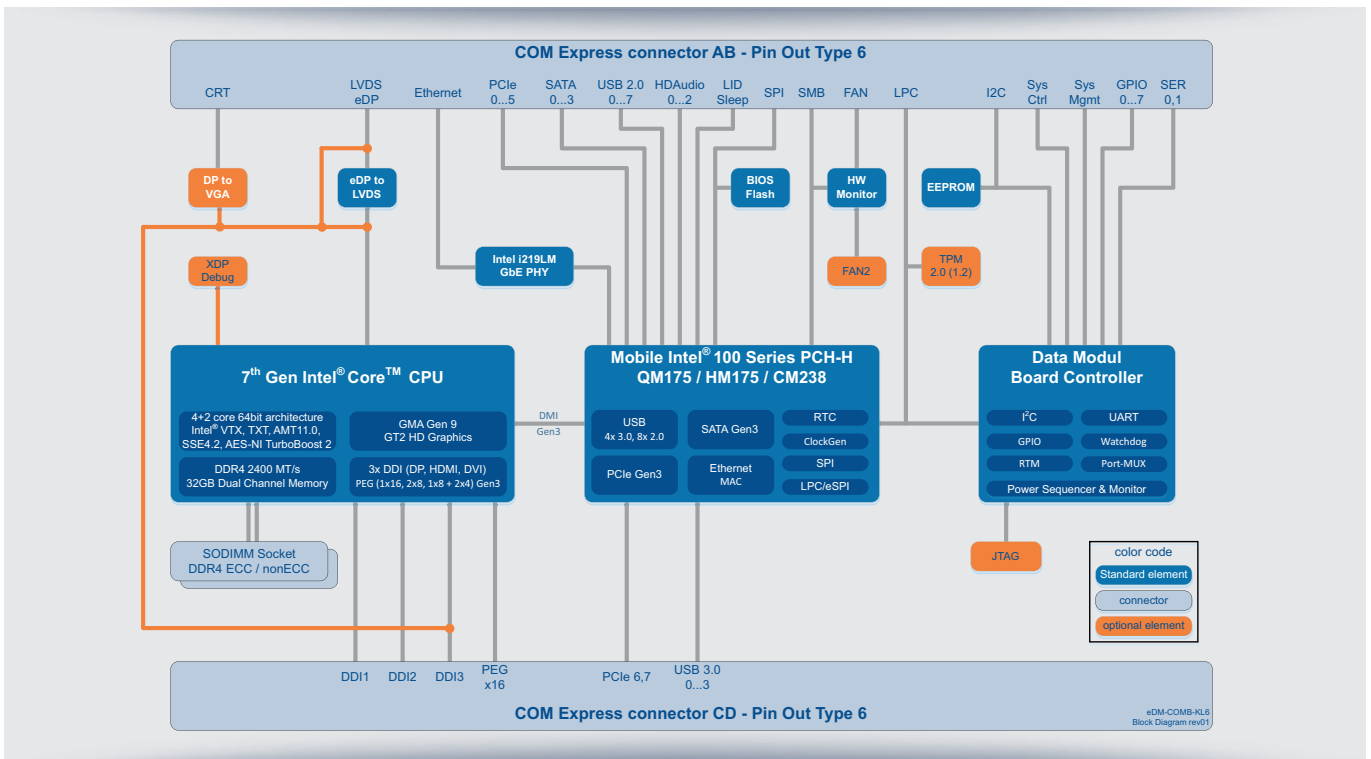
FEATURES

- COM Express® Basic Size (95 x 125 mm), Type 6 Connector Layout
- 7th Gen. Intel® Core® processor up to 4 GHz
- Up to 32 GB DDR4 memory, ECC/Non-ECC
- support for Intel® Optane™ memory, new level of SSD performance
- 3 independent displays up to 4k resolution

TECHNICAL INFORMATION

Formfactor	COM Express™ Basic, (95 x 125 mm), Type 6 Connector Layout
CPU	<p>Intel® Xeon® E3-1505MV6 3.0 GHz/4.0 GHz (Turbo), 4C/GT2, 8 MB L2 Cache, TDP 45W 35W, ECC support Intel® Xeon® E3-1505LV6 2.2 GHz/3.0 GHz (Turbo), 4C/GT2, 8 MB L2 Cache, TDP 25W, ECC support Intel® Core® i7-7820EQ 3.0 GHz/3.7 GHz (Turbo), 4C/GT2, 8 MB L2 Cache, TDP 45W 35W Intel® Core® i5-7440EQ 2.9 GHz/3.6 GHz (Turbo), 4C/GT2, 6 MB L2 Cache, TDP 45W 35W Intel® Core® i5-7442EQ 2.1 GHz/2.9 GHz (Turbo), 4C/GT2, 6 MB L2 Cache, TDP 25W Intel® Core® i3-7100E 2.9 GHz, 2C/GT2, 3 MB L2 Cache, TDP 35W Intel® Core® i3-7102E 2.1 GHz, 2C/GT2, 3 MB L2 Cache, TDP 25W Intel® Core® i3-7100E 2.9 GHz, 2C/GT2, 3 MB L2 Cache, TDP 35W, ECC support Intel® Core® i3-7102E 2.1 GHz, 2C/GT2, 3 MB L2 Cache, TDP 25W, ECC support</p> <p>Supports: Intel® VT, Intel® TXT, Intel® SSE4.2, Intel® HT Technology, Intel® Turbo Boost Technology 2.0, Intel® AVX2, Intel® AES-NI, PCLMULQDQ Instruction, Intel® Secure Key and Intel® TSX-NI, integrated Intel® Gen 9 HD Graphics Engine</p>
Memory	2 x SO-DIMM Socket: DDR4 up to 32GByte (2400 MT/s), Intel® Xeon® with ECC support and Intel® i3 with optional ECC support
Chipset	Mobile Intel® 100 Series Chipset QM175, HM175 and CM238
Graphics	Intel® Gen 9 HD Graphics Engine (GT2) with OpenCL 2.x, OpenGL 4.3/4.4 and DirectX12 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, HDCP 2.2 Support
Display Interfaces	3 x DDI (DP++, HDMI, DVI) / up to 4k resolution 1 x VGA (optional) 1 x Dual Channel 24 Bit LVDS up to 1920 x 1200 Pixel (optional eDP 1.4 up to 4k resolution)
Ethernet	Intel® I219-LM GbE LAN Controller with AMT 11 support
I/O Interfaces	4x USB 3.0 (XHCI), 8 x USB 2.0 (EHCI), 2 x UART (COM1/2) 8x PCIe Gen 3.0 lanes (x1/x2/x4 operation), 1x PEG x16 Gen 3.0 4 x SATA (6Gb/s), RAID 0,1,5,10 support, Rapid Storage Technology, Smart Response Technology 1 x Intel® Optane™ Storage (available via PCIe Gen 3.0 lanes) LPC Bus / TPM1.2 / TPM2.0 / GPIOs / SMB 2.0 / I²C Bus SPI for onboard/external Flash Intel HD Audio
DM Board Controller	Multi Stage Window 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 (64bit), Microsoft® Windows 10 IoT Enterprise (64bit), Linux (Yocto)
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-KL6-E3-1505MV6	12026009	COM Express Type 6 Basic with Intel® Xeon® E3-1505MV6, GT2, CM238 chipset, ECC
eDM-COMB-KL6-E3-1505LV6	12026010	COM Express Type 6 Basic with Intel® Xeon® E3-1505LV6, GT2, CM238 chipset, ECC
eDM-COMB-KL6-i7-7820EQ	12025599	COM Express Type 6 Basic with Intel® Core® i7-7820EQ, GT2, QM175 chipset
eDM-COMB-KL6-i5-7440EQ	12026011	COM Express Type 6 Basic with Intel® Core® i5-7440EQ, GT2, QM175 chipset
eDM-COMB-KL6-i5-7442EQ	12026012	COM Express Type 6 Basic with Intel® Core® i5-7442EQ, GT2, QM175 chipset
eDM-COMB-KL6-i3-7100E	12026013	COM Express Type 6 Basic with Intel® Core® i3-7100E, GT2, HM175 chipset
eDM-COMB-KL6-i3-7102E	12026014	COM Express Type 6 Basic with Intel® Core® i3-7102E, GT2, HM175 chipset
eDM-COMB-KL6-i3-7100E	12025600	COM Express Type 6 Basic with Intel® Core® i3-7100E, GT2, CM238 chipset, ECC
eDM-COMB-KL6-i3-7102E	12026015	COM Express Type 6 Basic with Intel® Core® i3-7102E, GT2, CM238 chipset, ECC

Accessories

eDM-COMB-SL6 -CF	12022742	Standard cooling solution with fan
eDM-COMB-SL6 -CP	12022745	Standard cooling solution passive
eDM-COMB-SL6 -HS	12022746	Standard heatspreader