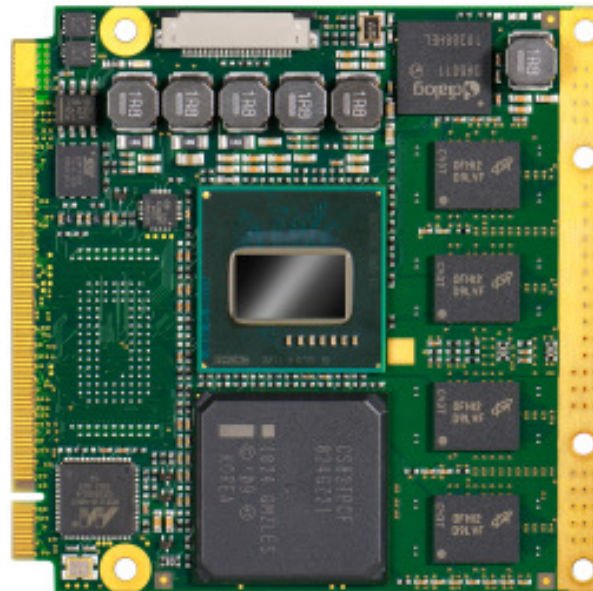


The H6055 is an extremely compact (70 mm x 70 mm) high-performance, ultra-low power COM module based on the Intel® Atom™ E600 series CPUs and the Intel® Platform Controller Hub EG20T. The form factor is Qseven, and H6055 is compliant with revision 1.2 of the standard. The Qseven standard is defined for low cost and ruggedness. Qseven modules have an edgecard MXM type connector for the carrier board connection. H6055 has soldered memory, optional conformal coating and is available in versions specified to operate in an industrial temperature range. Windows XP (embedded), Vista, Windows 7, CE 6.0 and Linux are supported.



Technical Specifications

Core Logic and Memory

CPU	Intel® Atom™ E620, 600MHz Intel® Atom™ E620T, 600MHz Intel® Atom™ E640, 1.00GHz Intel® Atom™ E640T, 1.00GHz Intel® Atom™ E660, 1.00GHz Intel® Atom™ E660T, 1.00GHz Intel® Atom™ E680, 1.60GHz Intel® Atom™ E680T, 1.60GHz
Chipset	Intel® Platform Controller Hub EG20T
Memory	DDRII RAM 512MB/1GB/2GB, Soldered down

Drives

Onboard SSD	SATA BGA NAND SSD 0/2/4 GB (Standard config.) 8/16/32 GB (Optional config.) Wear levelling software will reduce the size of the available memory with approx. 10%.
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Security Functions

TPM	Trusted Platform Module, TPM 1.2 onboard
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Interfaces

USB 2.0	6 + 1 ports (1 port supports client mode)
PCIe	3 ports
Serial Port	Support for Super I/O on carrier board
SATA II	1 - 2 ports
SDIO	2 ports (1 micro SD card slot on module)
CAN	1 port
LPC	1 port (I/O and FW)
I2C Bus	Master or Slave
SPI	
SMBus	
Ethernet	Onboard 1Gbit Ethernet MAC integrated in chipset, Micrel PHY KSZ9021RN1

Graphics

Integrated Graphics	Integrated 2D/3D acceleration, MPEG decoding and encoding
Interfaces	18/24-bit LVDS, SDVO

BIOS

AMI	UEFI BIOS
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Audio

Interface	Support for HD Audio codec on carrier board
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Miscellaneous

Watchdog Timer	Programmable, 1s. to 255h
System Monitoring	Voltage, Temperature, Fan

Battery Management

Support for Smart battery implementation on carrier board

Power Management

ACPI 3.0 compliant

Power Supply

Power	+5 V +/-5%
Consumption	Approx. 7W (Module with E640)

Environment

Operating Temperature	0 °C to +60 °C (Standard) -40 °C to +85 °C (Industrial)
Humidity	5% to 95% (Operating) 5% to 95% (Storage)

Mechanical

Dimensions	70 mm x 70 mm x 13 mm
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Accessories

Heatspreader, Heatrail, Reference Carrier Board

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HECTRONIC AB
Box 3002
SE-750 03 Uppsala
SWEDEN

Visitors Address
Fålhagsleden 59
Uppsala

Telephone +46.18.660 700
Telefax +46.18.660 701
info@hectronic.se
www.hectronic.se