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Data Sheet

August 15, 2026

CONGATEC

Congatec Conga-TS87/i7-4700EQ COM Express Module

The Congatec Conga-TS87/i7-4700EQ is a COM Express Module featuring an Intel Core i7-4700EQ processor. It offers high-performance computing in a compact form factor, ideal for embedded applications requiring significant processing power and reliability.



MODEL

Congatec Conga-TS87/i7-4700EQ

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

Conga-TS87/i7-4700EQ

LISTING

<https://aumictechlabs.com/products/conga-ts87-i7-4700eq-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Congatec Conga-TS87/i7-4700EQ is a COM Express Basic Type 6 module built on Intel's 4th Generation Core processor platform. It delivers quad-core processing at 2.4 GHz (3.4 GHz Turbo Boost) with integrated HD graphics supporting up to 4K resolution, making it suitable for embedded applications in industrial, medical, and automation environments. Technical Specifications Processor & Memory Intel Core i7-4700EQ: quad-core, 2.4 GHz base / 3.4 GHz Turbo Boost, 6 MB cache, 47 W TDP Mobile Intel QM87 chipset 2 x SO-DIMM sockets, DDR3L @ 1.35 V up to 1600 MT/s, 16 GByte maximum 25.6 GByte/sec memory bandwidth Graphics & Display Intel HD Graphics with dynamic frequency to 1 GHz OpenCL 1.2, OpenGL 4.0, DirectX 11.1 Intel Clear Video HD Technology Three independent displays, up to 4K resolution Outputs: DDI, DVI, DP, VGA Storage & I/O 4 x SATA 6 Gb/s with RAID 0/1/5/10 support 7 x PCIe Gen 2.0 lanes + 1

x PEG Gen 3.0 (8 GT/s) 4 x USB 3.0 (XHCI) + 8 x USB 2.0 2 x ExpressCard I²C (400 kHz), SPI, LPC, 2 x SER/CAN, 8 x GPIO/SDIO Networking & Security Intel I218-LM Gigabit Ethernet with AMT 9.0 Optional discrete TPM (hash/RSA up to 2,048 bits) Intel AES-NI hardware encryption, Intel TXT, Intel Secure Key Firmware & Management AMI Aptio UEFI 2.x, 8 MByte SPI flash congatec Board Controller: multi-stage watchdog, power loss control, non-volatile user storage ACPI 4.0 with battery support Form Factor 95 mm × 125 mm (3.74" × 4.92") Key Features Quad-core Intel Core processor with AVX2 and AES-NI Integrated graphics with 4K capable output Configurable processor options across Core i5, i3, and Celeron variants High-definition audio (HDA) Eight USB ports spanning USB 3.0 and 2.0 Typical Applications Industrial automation systems, medical imaging platforms, edge computing appliances, in-vehicle computing, and rugged data acquisition systems requiring compact, thermally efficient processing with discrete graphics support. Compatibility & Integration COM Express Type 6 pinout ensures compatibility with validated carrier boards. Windows 10 and Windows 10 IoT Enterprise operating system support. Supports both discrete TPM modules and hardware-based security via Intel TXT.

CONGATS87I74700EQ Characteristics / Specifications

PARAMETER	VALUE
Model	Conga-TS87/i7-4700EQ
Part Number	046804
Instrument Type	COM Express Basic Type 6 CPU module
Family	congatec conga-TS87 4th Gen Intel Core
Form Factor	COM Express Basic 95 × 125 mm (3.74 × 4.92 in) Type 6
Processor	Intel Core i7-4700EQ quad-core 2.4 GHz, Turbo Boost 3.4 GHz, 6 MB cache, 47 W TDP
Chipset	Intel QM87 (DH82QM87) 8 Series PCH
Memory	2x SO-DIMM DDR3L 1.35 V up to 1600 MT/s, 16 GB maximum
Memory Bandwidth	up to 25.6 GByte/s dual channel
Ethernet	Intel I218-LM Gigabit Ethernet with AMT 9.0
Pci Express	7x PCIe Gen 2.0 lanes plus 1x PEG Gen 3.0 (8 GT/s) x16
Sata	4x Serial ATA 6 Gb/s with RAID 0/1/5/10
Usb SuperSpeed	4x USB 3.0 XHCI
Usb High Speed	8x USB 2.0 EHCI
Graphics	Intel HD Graphics dynamic frequency up to 1 GHz; OpenCL 1.2, OpenGL 4.0, DirectX 11.1
Digital Display	3x DisplayPort 1.2a / HDMI 1.4 / DVI, up to 4k
Lvds	dual channel 2×24 bit to 1920×1200 with EDID/EPI panel detect
Crt	180 MHz RAMDAC, WUXGA 1920×1200 at 60 Hz
Audio	HDA digital audio
Firmware	AMI Aptio UEFI 2.x, 8 MByte SPI flash
Power Management	ACPI 4.0 with battery support
Operating Temperature	0 to plus 60 C
Storage Temperature	minus 20 to plus 80 C
Operating Humidity	10 to 90 percent RH non-condensing

PARAMETER	VALUE
Storage Humidity	5 to 95 percent RH non-condensing
I2c Bus	fast mode 400 kHz multi-master
Watchdog	multi-stage watchdog in congatec board controller
Manufacturer	congatec AG
Literature	congatec conga-TS87 datasheet Rev. Jan 29, 2018
Bandwidth	up to 25.6 GByte/s dual channel
Humidity	10 to 90 percent RH non-condensing

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Storage temperature	minus 20 to plus 80 C
Operating temperature	0 to plus 60 C
Operating Temperature	0 to plus 60 C
Humidity	10 to 90 percent RH non-condensing
Operating Humidity	10 to 90 percent RH non-condensing
Storage Humidity	5 to 95 percent RH non-condensing
I2c Bus	fast mode 400 kHz multi-master
Watchdog	multi-stage watchdog in congatec board controller
Manufacturer	congatec AG
Literature	congatec conga-TS87 datasheet Rev. Jan 29, 2018 Notes

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

Specifications	
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Memory	2x SO-DIMM DDR3L 1.35 V up to 1600 MT/s, 16 GB maximum
Memory Bandwidth	up to 25.6 GByte/s dual channel
Ethernet	Intel I218-LM Gigabit Ethernet with AMT 9.0
Pci Express	7x PCIe Gen 2.0 lanes plus 1x PEG Gen 3.0 (8 GT/s) x16
Sata	4x Serial ATA 6 Gb/s with RAID 0/1/5/10
Usb SuperSpeed	4x USB 3.0 XHCI
Usb High Speed	8x USB 2.0 EHCI
Graphics	Intel HD Graphics dynamic frequency up to 1 GHz; OpenCL 1.2, OpenGL 4.0, DirectX 11.1
Digital Display	3x DisplayPort 1.2a / HDMI 1.4 / DVI, up to 4k
Lvds	dual channel 2x24 bit to 1920x1200 with EDID/EPI panel detect
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Notes

From congatec conga-TS87 datasheet (i7-4700EQ P/N 046804: 2.4/3.4 GHz, 47 W, 16 GB DDR3L-1600, Type 6 95x125 mm, 0-60 C). Typical application watts are TBD in the datasheet; use the user's guide power table, do not invent idle/load amps.

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: sales@aumictech.com · +1 (484) 841-9341

Aumictech

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NIST-traceable calibration · SAM registered ·
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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.