

## » COMe-c0H# «



## Compact COM Express® module for graphics-intensive SFF applications

- » Based on AMD® G-Series Advanced Processing Unit (APU)
- » Excellent integrated graphics support for video playback & multi-display use
- » Optimized processing performance
- » Support for Direct X® 11, OpenCL™ 1.1 and OpenGL® 4.0
- » Configurable PCIe lanes, 4x SerialATA, and USB 3.0

## COMe-cOH#

Compact COM Express® module for graphics-intensive SFF applications

## Technical Information

|                            |  |
|----------------------------|--|
| <b>CPU</b>                 | AMD® G-Series Fusion Advanced Processing Unit (APU) up to 2x 1.6GHz  |
| <b>Chipset</b>             | AMD® Fusion Controller Hub (FCH)   |
| <b>Memory</b>              | Up to 8 GB, single channel DDR3  |
| <b>Hard Disk</b>           | 4x SerialATA 2.0   |
| <b>USB</b>                 | USB 3.0 (type 6 only), 2 ports and USB 2.0, 6 ports (via Renesas uPD720200 PCIe Gen2 to USB 3.0 bridge)  |
| <b>PCI Express</b>         | 6 PCI Express; Up to 4 lanes configurable as x4, x2, or x1 (lanes 0-3), up to 2 lanes configurable as x2 or x1 (lanes 4-5)   |
| <b>PCI</b>                 | PCI 2.3, 32 bit / 33 MHz (type 2 only)   |
| <b>Ethernet</b>            | Intel® 82574L Gigabit Ethernet Controller 10/100/1000 Mbit   |
| <b>Sound</b>               | HD Audio (3 channels)  |
| <b>Graphics Controller</b> | Integrated AMD Graphics Processor Unit (GPU) in the G-series APU w/ Direct X® 11, OpenCL™ 1.0 and OpenGL® 3.2 and 2.1  |
| <b>Display Interfaces</b>  | Single Analog VGA - resolution to 2560 x 1600 x 60Hz<br>Display Port – resolution to 2560 x 1200 x 60 Hz<br>HDMI / DVI - resolution to 1920 x 1200 x 60 Hz<br>2x DDI (DisplayPort/HDMI/DVI) CRT up to 2560x1600 (Type 6)<br>Single Channel LVDS 18 bit (type 6), 24 bit (Type 2) |
| <b>Operating Systems</b>   | Windows® 7, Windows Vista®, Windows® XP, Windows® XP Embedded, Windows® CE, Linux, VxWorks, and others   |
| <b>Other Features</b>      | ACPI 3.0, S-States: S0, S3, S5eco, I2C, Watchdog, MARS, KSTATION, KEAPI, support lines for two ExpressCards, Serial Port   |
| <b>Form Factor</b>         | COM Express® compact: 95 x 95 mm Pin-out Type 2 and 6  |
| <b>Power Consumption</b>   | 20W (typ.) 4.75V to 18V Wide Range support   |
| <b>Temperature</b>         | Operation: 0°C to +70°C, Storage: -30°C to +85°C   |
| <b>Humidity</b>            | Operation: 10% to 90%, Storage: 5% to 95% (non condensing)   |

## Ordering Information

| Article                      | Part No.           | Description  |
|------------------------------|--------------------|--|
| COMe-cOH6 T52R               | 36008-0000-15-1    | COM Express® compact pin-out type 6 Computer-on-Module with AMD APU T52R 1.50GHz, A50M Fusion Controller Hub, 2x DDR3 SODIMM socket    |
| COMe-cOH6 T44R               | 36008-0000-12-1    | COM Express® compact pin-out type 6 Computer-on-Module with AMD APU T44R 1.20GHz, A50M Fusion Controller Hub, 2x DDR3 SODIMM socket    |
| COMe-cOH2 T44R               | 36010-0000-12-1    | COM Express® compact pin-out type 2 Computer-on-Module with AMD APU T44R<br>1.20GHz, A50M Fusion Controller Hub, 2x DDR3 SODIMM socket |
| COMe-cOH6 T40N               | 36008-0000-10-2    | COM Express® compact pin-out type 6 Computer-on-Module with AMD APU T40N 2x1.00GHz, A50M Fusion Controller Hub, 2x DDR3 SODIMM socket  |
| COMe-cOH6 T56N               | 36008-0000-16-2    | COM Express® compact pin-out type 6 Computer-on-Module with AMD APU T56N 2x1.60GHz, A50M Fusion Controller Hub, 2x DDR3 SODIMM socket  |
| COMe-cOH2 T56N               | 36010-0000-16-2    | COM Express® compact pin-out type 2 Computer-on-Module with AMD APU T56N 2x1.60GHz, A50M Fusion Controller Hub, 2x DDR3 SODIMM socket  |
| HSP COMe-cOH# thread         | 36008-0000-99-0    | Heatspreader for COMe-cOH, threaded mounting holes   |
| HSP COMe-cOH# through        | 36008-0000-99-1    | Heatspreader for COMe-cOH, through holes   |
| HSK COMe-cOH# active thread  | 36008-0000-99-0C01 | Active cooling solution for COMe-cOH, threaded mounting holes  |
| HSK COMe-cOH# passive thread | 36008-0000-99-0C02 | Passive cooling solution for COMe-cOH, threaded mounting holes   |

## CORPORATE OFFICES

## Europe, Middle East &amp; Africa

Oskar-von-Miller-Str. 1  
85386 Eching / Munich  
Germany

Tel.: +49 (0) 8165 / 77 777  
Fax: +49 (0) 8165 / 77 219  
info@kontron.com

## North America

14118 Stowe Drive  
Poway, CA 92064-7147  
USA

Tel.: +1 888 294 4558  
Fax: +1 858 677 0898  
info@us.kontron.com

## Asia Pacific

17 Building, Block #1, ABP.  
188 Southern West 4th Ring Road  
Beijing 100070, P.R.China

Tel.: +86 10 63751188  
Fax: +86 10 83682438  
info@kontron.cn