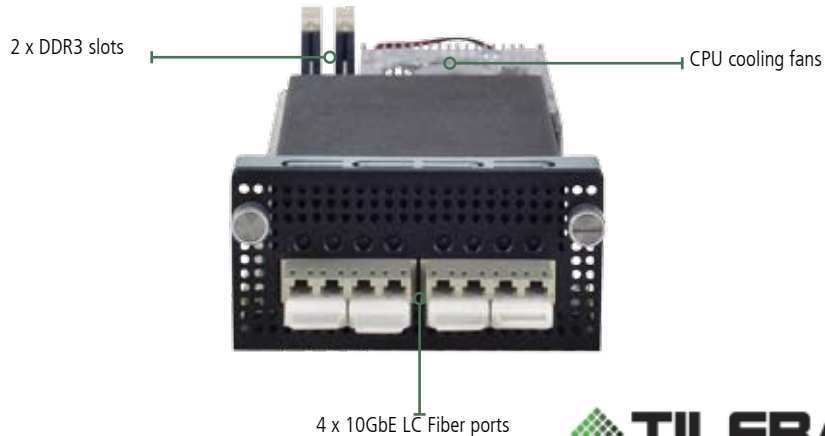


NCS-MTX401

NIC Module with Tileria®
TILE-Gx8036 processor



Features

Tileria® TILE-Gx8036™ Processor

The TILE-Gx8036™ Processor is optimized for networking and multimedia applications and delivers enormous compute and I/O with complete “system on-a-chip” features. The device includes 36 identical processor cores (tiles) interconnected with Tileria’s iMesh™ on-chip network. Each tile consists of a full-featured processor core as well as L1 and L2 cache and a non-blocking switch that connects the tiles into the mesh. Each tile can independently run a full operating system, or a group of tiles can run a multiprocessed OS, like SMP Linux. The TILE-Gx8036 is ideal for

sophisticated networking applications requiring 20 to 40 Gbps of performance.

Low Power, High Performance Architecture

Under 30 Watts of processor power consumption, Up to 40 Gbps Wire-speed performance.

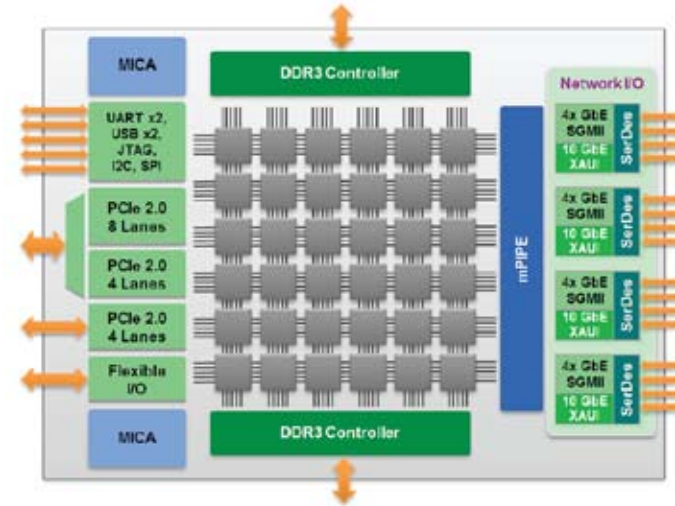
Tileria® MiCA™-Multicore iMesh Coprocessing Accelerator

The Tileria MiCA crypto and compression acceleration engines deliver low-latency and high-bandwidth offload up to 40Gbps encryption throughput.

Offload all Packet Processing

NCS-MTX401 can be used with all Lanner appliances equipped with NIC module slots. While the appliance x86 processor takes care of the application, there is enough processing power on this module for you to offload all the packet processing for tasks such as DPI, IDS/IPS and cryptography. Use appliances with

multiple NIC module slots to add more packet processing cores. With a system such as FW-8895 you can add up to 4 modules for a total of 144 cores.



Lanner

Preliminary Specifications

| Processor / Cache | |
|----------------------------|---|
| Processor | Tilera TILE-Gx8036 1.2 GHz CPU <ul style="list-style-type: none">• 36 cores• 9 MB coherent cache |
| Network Engine | 2 x MICA engines |
| Memory | |
| System Memory | <ul style="list-style-type: none">• Support 2 DIMM DDR3 ECC 1333/1600 MHz (vertical socket)• Support ECC DIMMs• 8 GB Maximum capacity |
| On Board Devices | |
| Flash | <ul style="list-style-type: none">• 1 x Serial flash for boot loader• 1 x SPI ROM |
| Network Controllers | 1 x BCM8747 Quad ports 10G PHY |
| I/O Connectors | |
| USB | 1 x Internal USB pin header |
| Serial Port/Header | 1 x Internal 1x3 pin header console pin header |
| LAN port | 4 x 10GbE LC Fiber port |
| LAN Bypass | Fiber Bypass |
| PCB & Dimensions | |
| Physical Dimensions | PCB: 193 mm x 95 mm |
| PCB Layer | 14 Layers |

Ordering Information

| | |
|--------------------|---|
| NCS-MTX401A | Tilera NPU 1.2 GHz TILE-Gx8036, 4 x 10G SFP+ ports, Tranceiver SX x 4 included, USB, Console pinheader included, with Bypass |
| NCS-MTX401B | Tilera NPU 1.2 GHz TILE-Gx8036, 4 x 10G SFP+ ports, Tranceiver SX x 4 included, USB, Console pinheader included, without Bypass |