

MicroTCA BACKPLANES



FEATURES

- Complies to MicroTCA.0 Specification Rev 1.0
- High speed connector up to 6.25 Gbps
- Slot to slot aggregate bandwidth of 5,000 Mbytes/sec
- Aproximately 3U height
- Star-12 AMC, 1 MCH, 1 Power (all full size)
- Dual Star-10 AMC, 1 MCH, 1 Power (all full size)
- Other versions available in various configurations -- half height, full height, single width, full width
- Modular and serviceable
- Standard shelf management - MicroTCA Carrier Hub (MCH)

BOARD SPECIFICATIONS

- Star-16-layer board, Dual Star-20-layer board
- 2 oz. copper power and ground
- PCB UL listed 94V-0
- PCB FR-4 or equivalent
- Star PCB .154" thick, Dual Star PCB .195" thick

MECHANICAL SPECIFICATIONS

- 3U height
- Full size modules
- Star-pressfit connectors
- Dual Star-compression connectors

DESCRIPTION

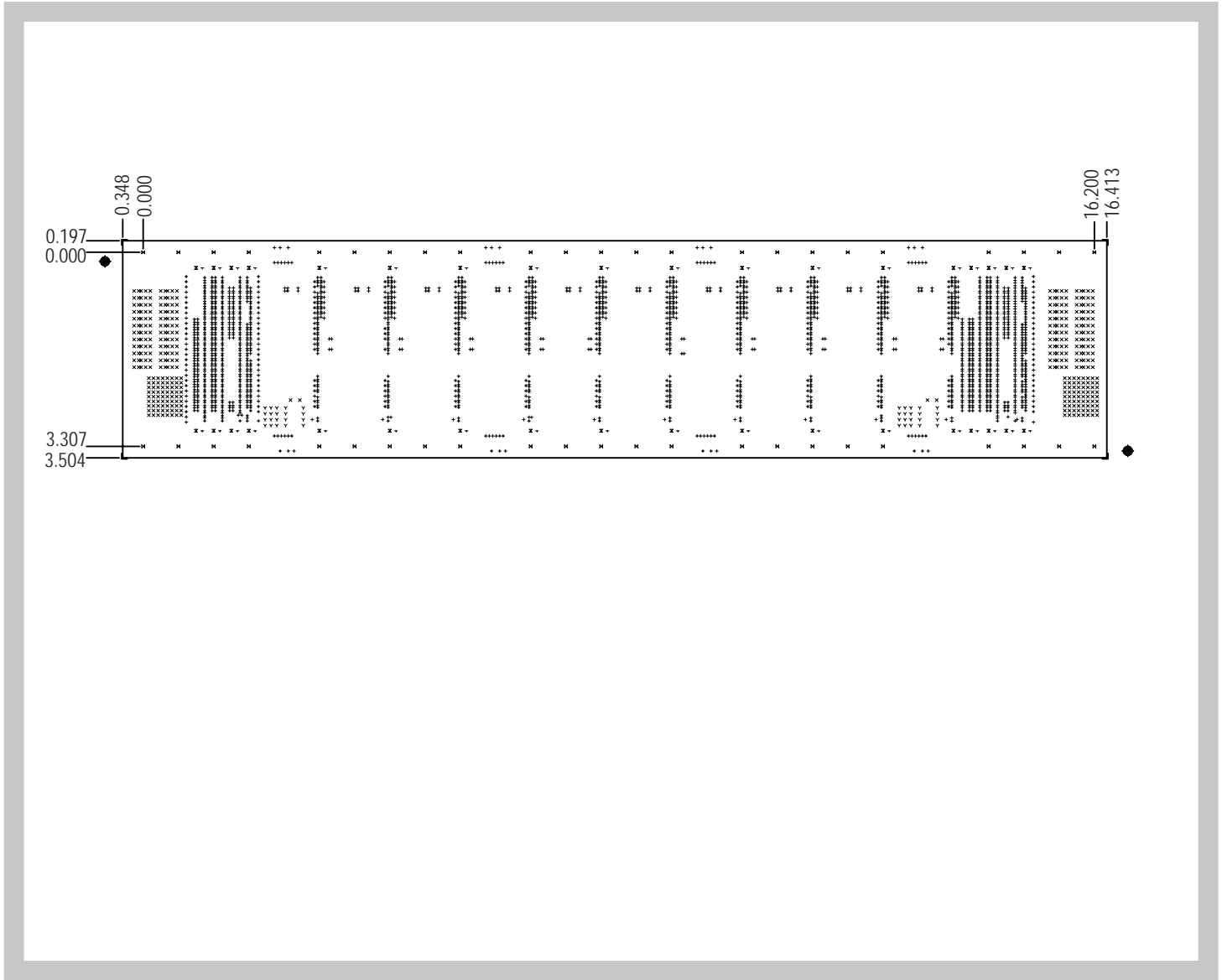
The Elma Bustronic Star MicroTCA backplane comes with 12 AMC, 1 power, and 1 MCH slots, all in the full size configuration. The Dual Star version has 10 AMC, 2 power, and 2 MCH slots in the full size. The Star backplane utilizes the pressfit style connector, while the Dual Star version uses the compression style connector.

MicroTCA was developed as an "ATCA Lite", for applications where AdvancedTCA may be overkill. It reduces size and cost by eliminating the ATCA carrier, enabling AMC modules to be plugged directly into the backplane. MicroTCA provides scaleable bandwidth from 1-40 Gbit/sec, and scaleable availability ranging from three nines (99.9%) to five nines uptime (99.999%).

The MicroTCA Carrier Hub (MCH) provides interconnect, power conversion, clock distribution, and system management functionality needed to support up to 12 AMC modules. The high performance of MicroTCA coupled with its compact size, low cost and low power consumption make it a good fit for wireless base stations, digital loop carriers, optical ADMs, enterprise networking, storage servers, non-rugged Mil/Aero communications, and many other applications.

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LINE DRAWING

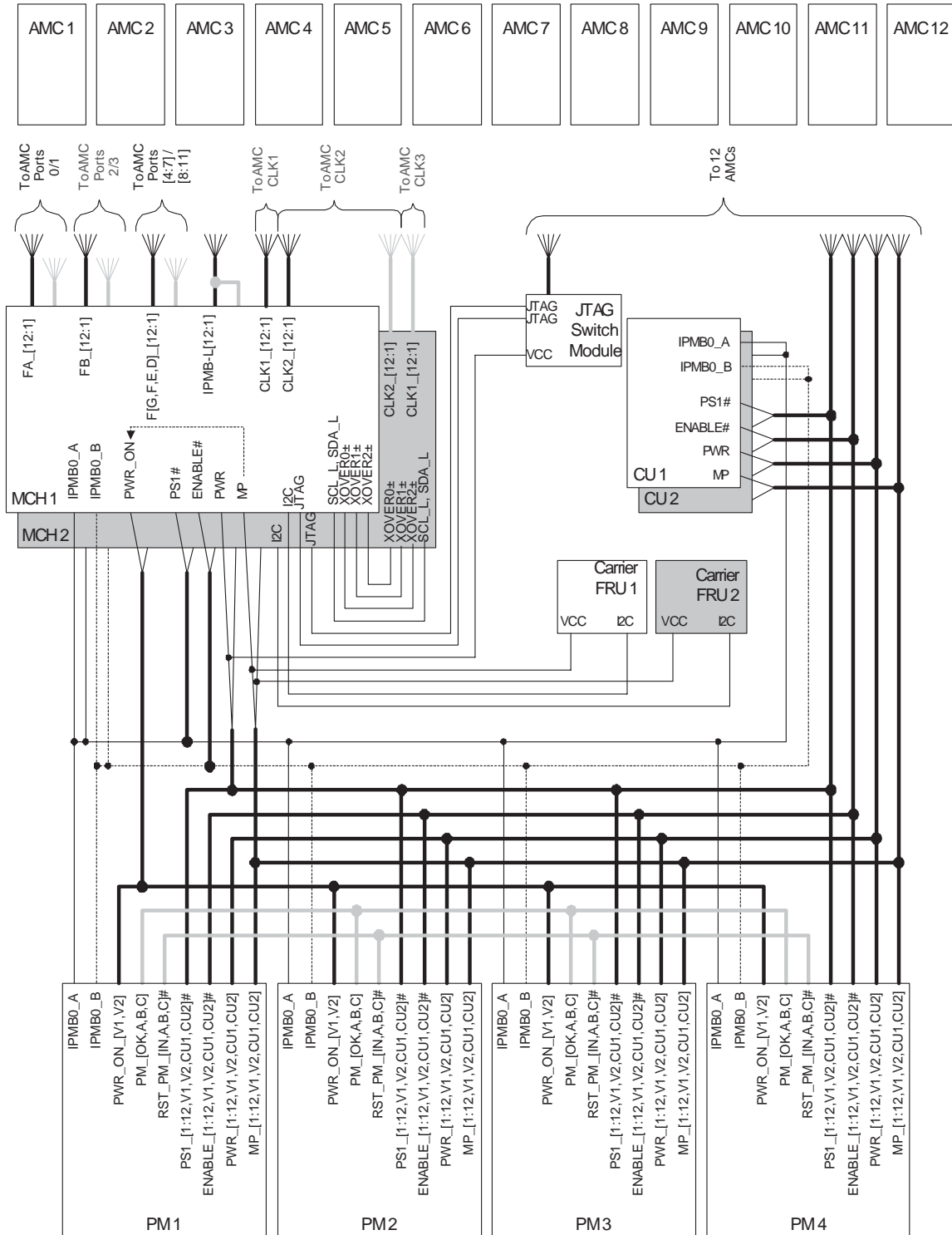


ORDER INFORMATION

Height	Slots	Description	Part Number
3U	14	12 AMC, 1 power, 1 MCH slots all in full size	1900001635-0000R
3U	14	10 AMC, 2 power, 2 MCH slots all in full size	109MTCAS14-2220R

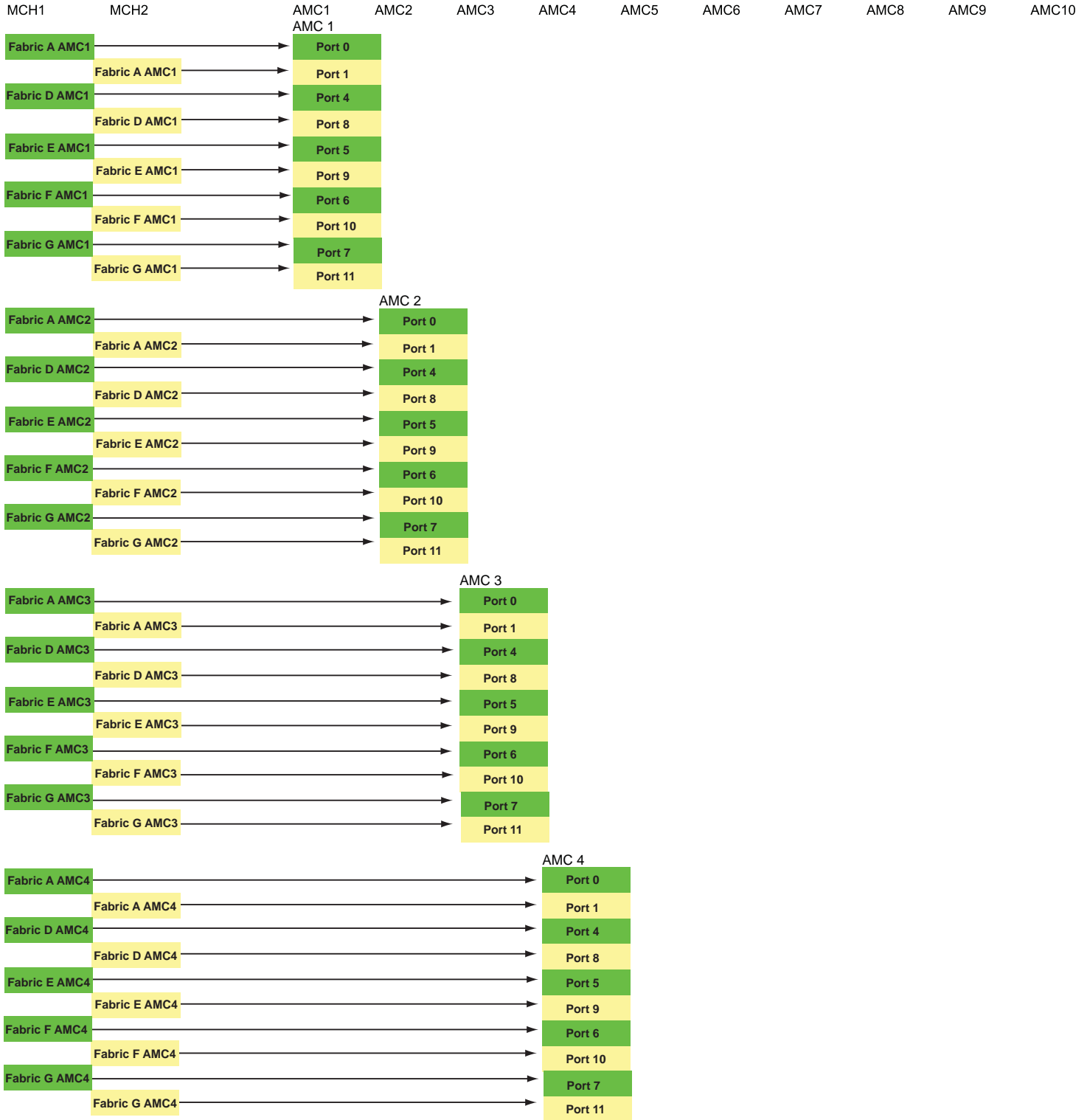
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CONNECTIVITY



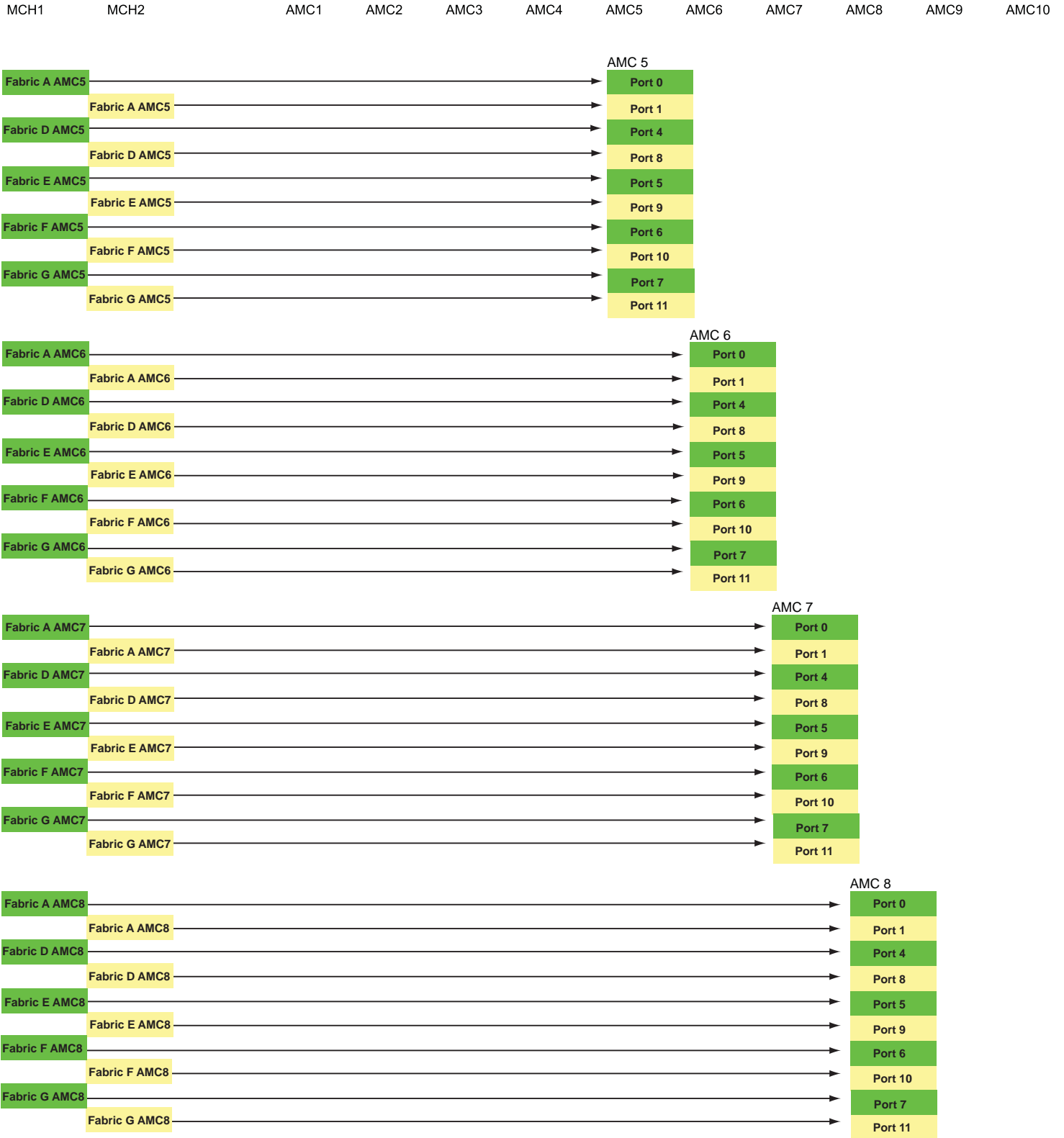
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LANE MAPPING



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