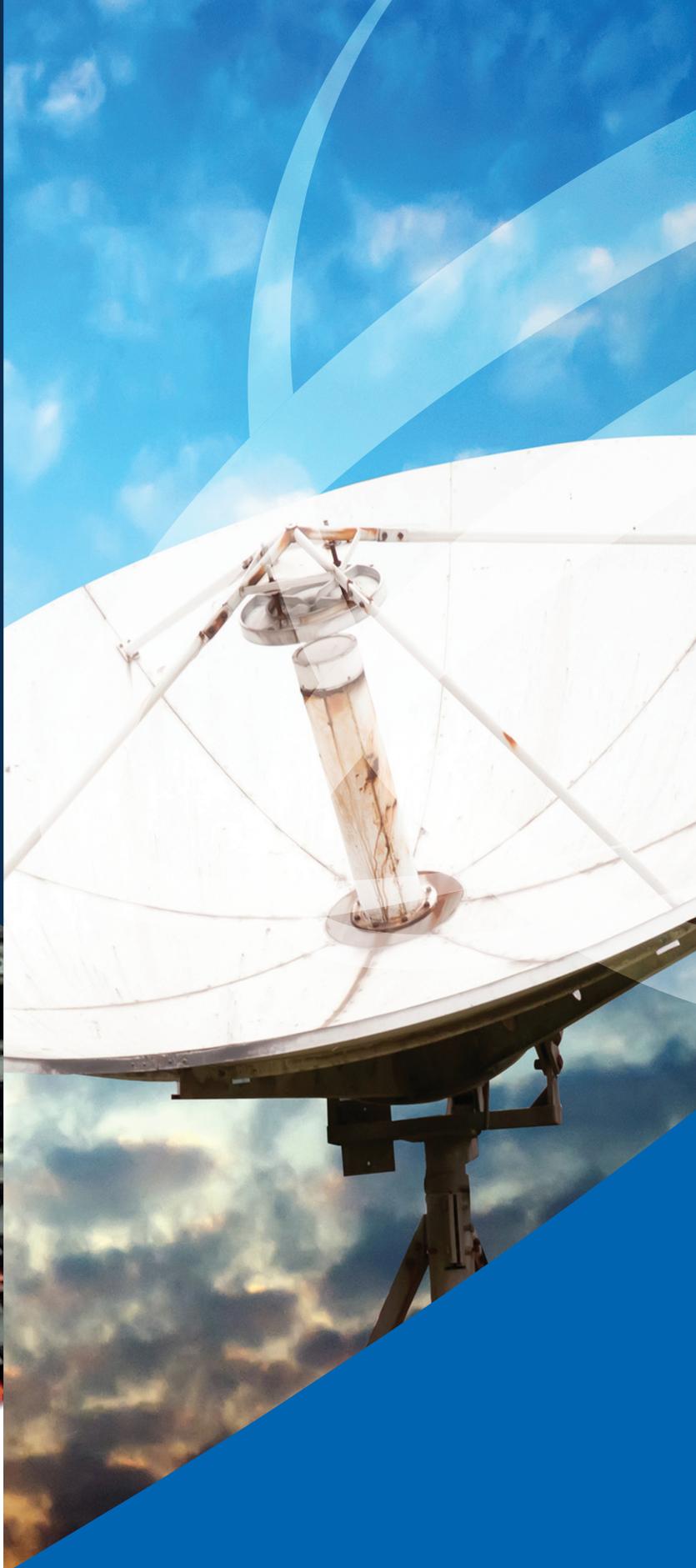


VadaTech
VT835 / VT836 3U
ATCA Hybrid Chassis
with 8 AMC's



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VT835/VT836 Features

The VT835 / VT836 offers unprecedented performance density with 1 ATCA node slot and 8 mid-size, single width AMCs in 3U height. Typically, only 4 mid-sized AMCs can fit on an ATCA carrier, with VadaTech's unique design, 8 AMCs can fit in a single chassis to provide AMC's versatility of processors, FPGAs, storage, graphics, I/O options and much more.

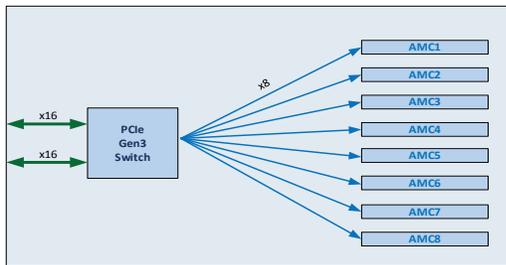
AdvancedTCA supports high power processing blades with high-bandwidth connectivity. MicroTCA offers flexible functionality and I/O through AdvancedMC form factor modules. VadaTech's

unique platform architecture provides the best of both worlds in a platform suitable for telecom, video processing and defence applications, with a wide range of fabric options.

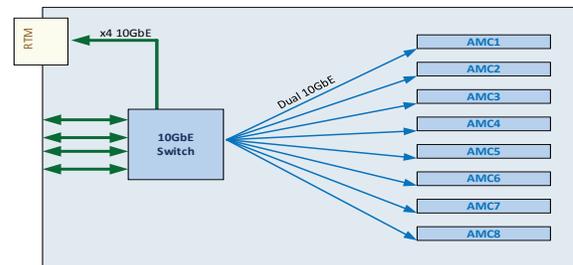
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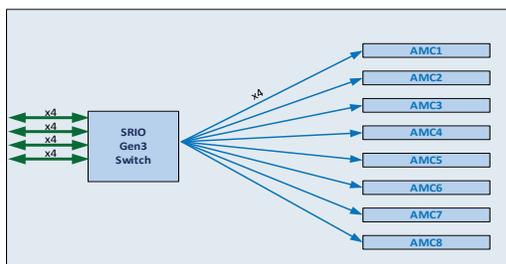
Carrier Options



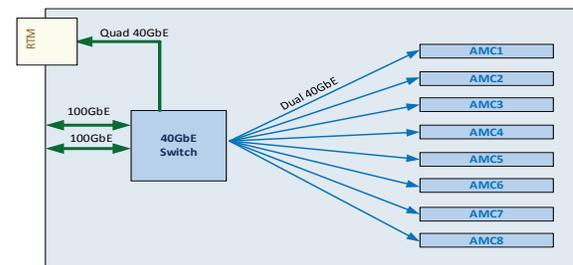
PCIe Carrier Option



10GbE Carrier Option



SRIO Carrier Option



40GbE Carrier Option

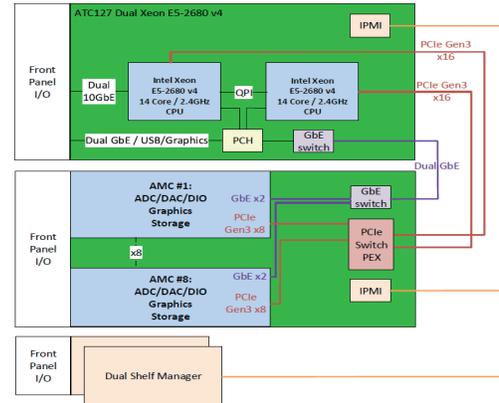
Example Applications

VT836 provides the same architecture for integration into airframe forced air cooling



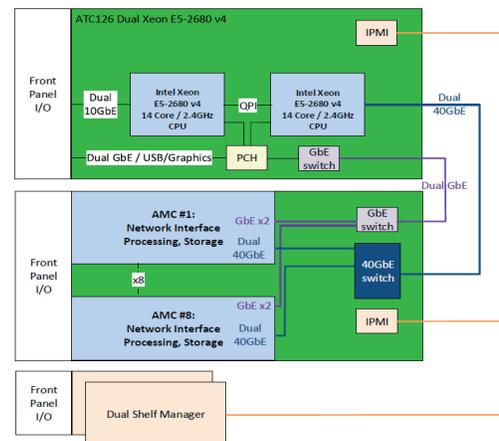
PCIe Platform – powerful host with flexible signal acquisition

- ATC127 (dual embedded Intel processor) as host/processing board
 - 300W blade
 - Processor too high power/thermal for MicroTCA
- AMCs used for ADC/DAC, FPGA, DIO, serial I/O, storage
 - Very flexible functionality selection
 - (Clocks limitation: only front panel, no CLKA/B/C/D)
- Excellent bandwidth between AMCs
 - PCIe Gen3 x8 to each AMC bay, dual x16 to blade
 - Direct point-to-point links 12-15 to 17-20 for FPGA-based processing



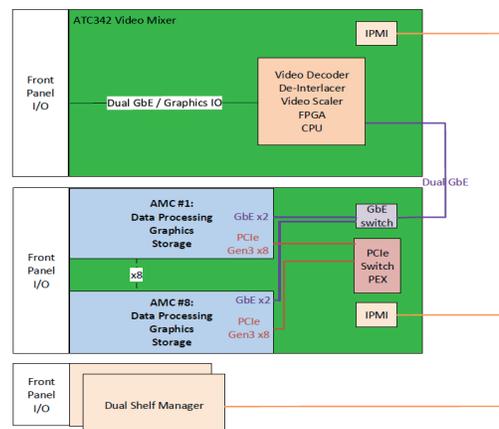
40 GbE Platform – powerful host, configurable I/O and storage

- ATC126 (dual embedded Intel processor) as host/processing board
 - 300W blade
 - Processor too high power/thermal for MicroTCA
- AMC used for networking, processing, storage and FPGA
 - Very flexible functionality selection
 - (Clocks limitation: only front panel, no CLKA/B/C/D)
- Excellent bandwidth between AMCs
 - Dual 40GbE to each AMC bay, dual 40GbE to blade
 - Direct point-to-point links for FPGA-based processing and storage



Graphics Processing Architecture

- Blade slot used for power/cooling, not for connectivity
- ATC342 as video mixer
 - Encoding, decoding and video mixing, filters, mask
 - Blade too large for MicroTCA
- AMC used for Kaby Lake, storage and FPGA MPSoC – incl system host
 - Flexible functionality selection
 - Encode/decode, network interfaces
- Additional direct links 12-15 to 17-20 slot to slot
 - Direct connections for storage and network processors



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