



# Solution

## MTCA.4 and MicroTCA.4.1



Zone 3  
connector

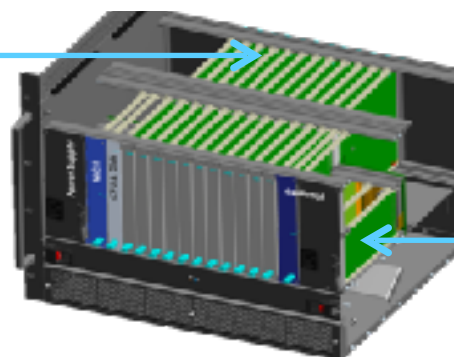


### Rear Transfer Module (RTM)

- rearside cable access
- mostly analog
- signal sampling & conditioning

### Advanced Mezzanine Card (AMC)

- mostly digital
- latest FPGAs
- data processing



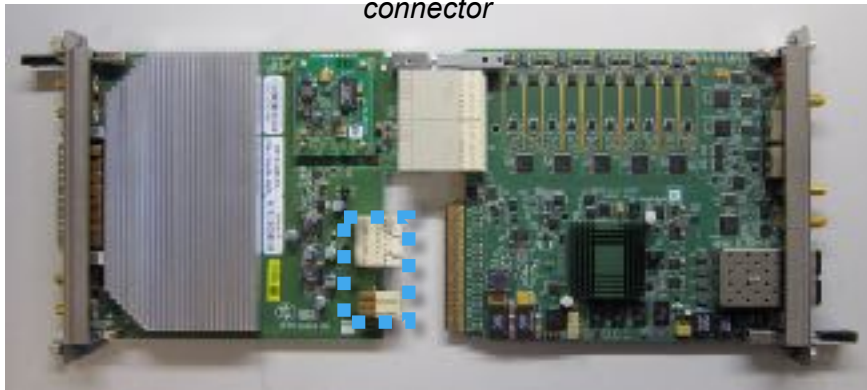


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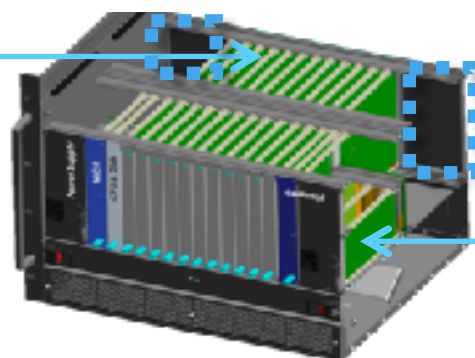


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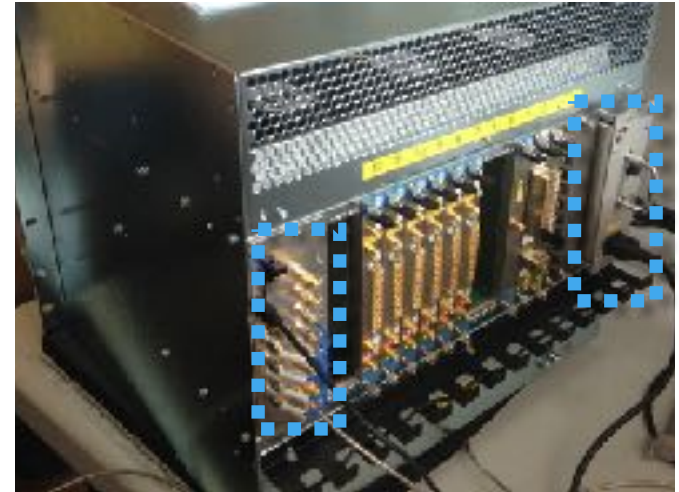
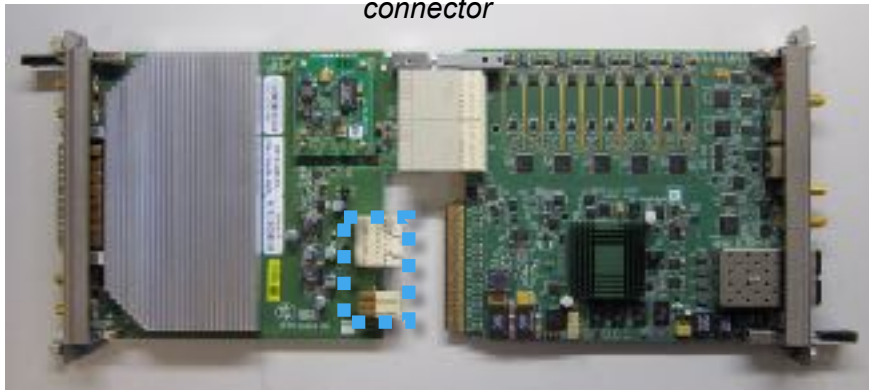


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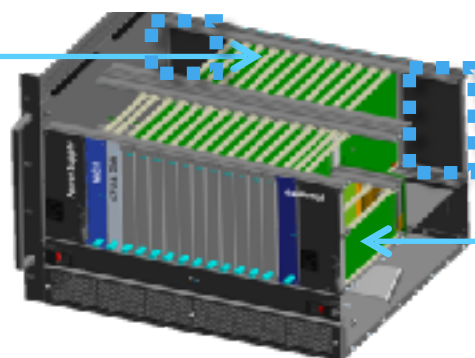


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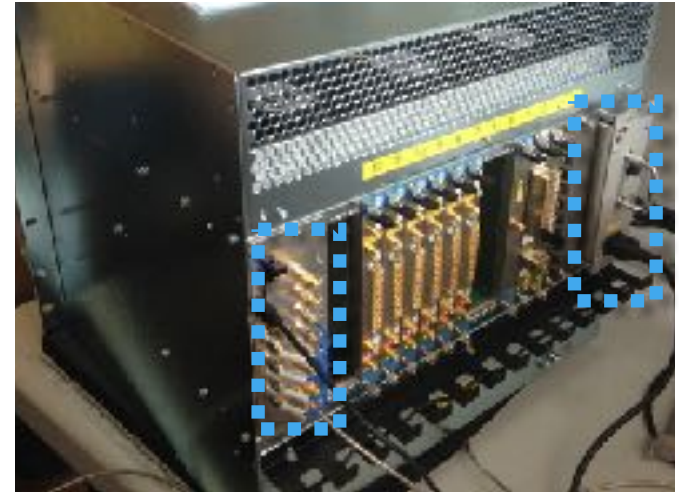
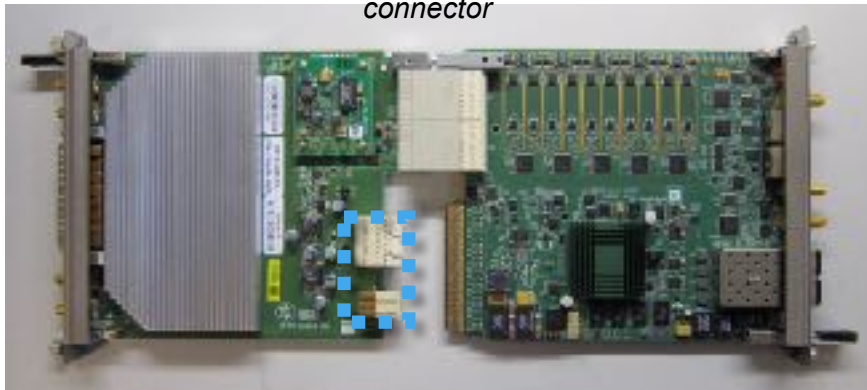


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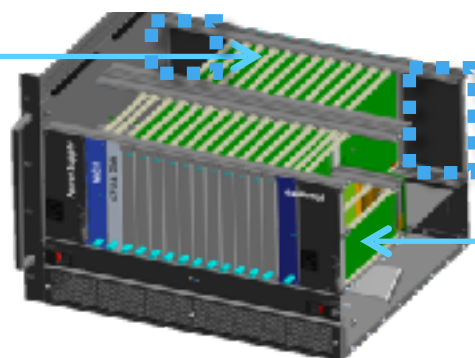


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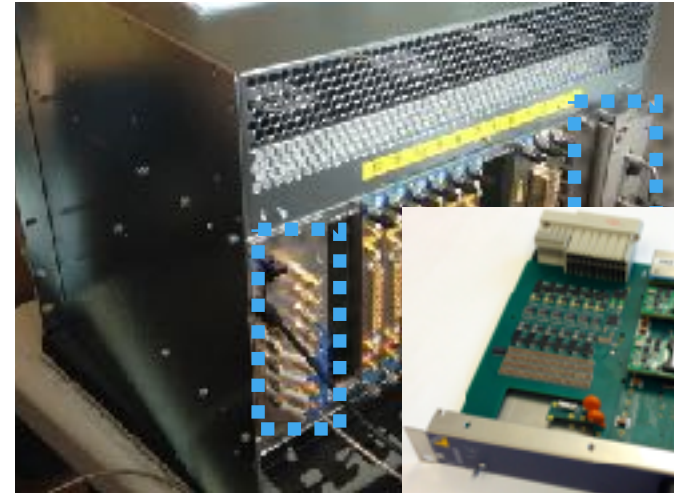
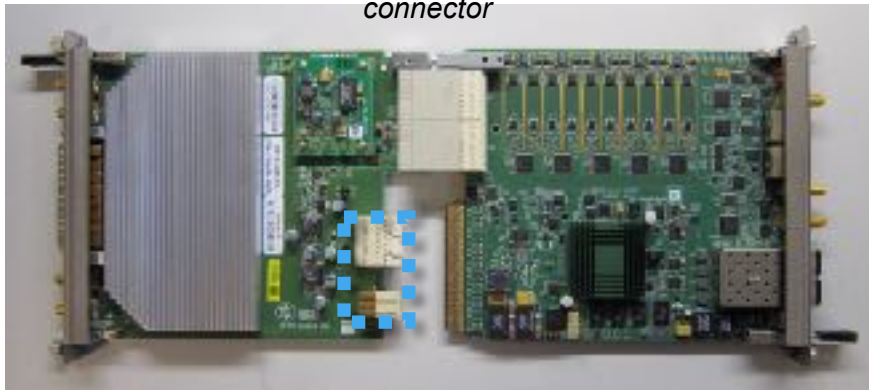


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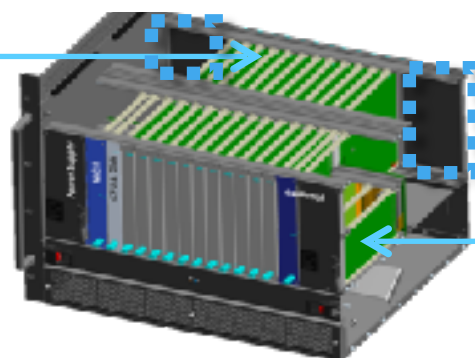


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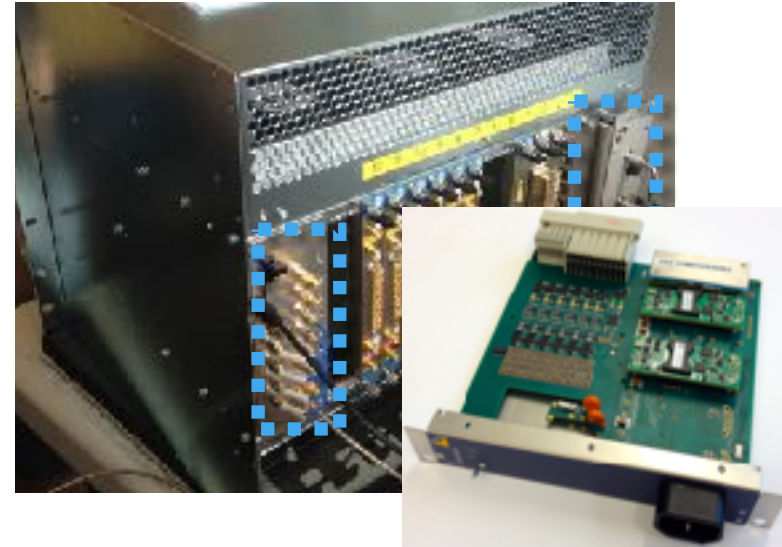
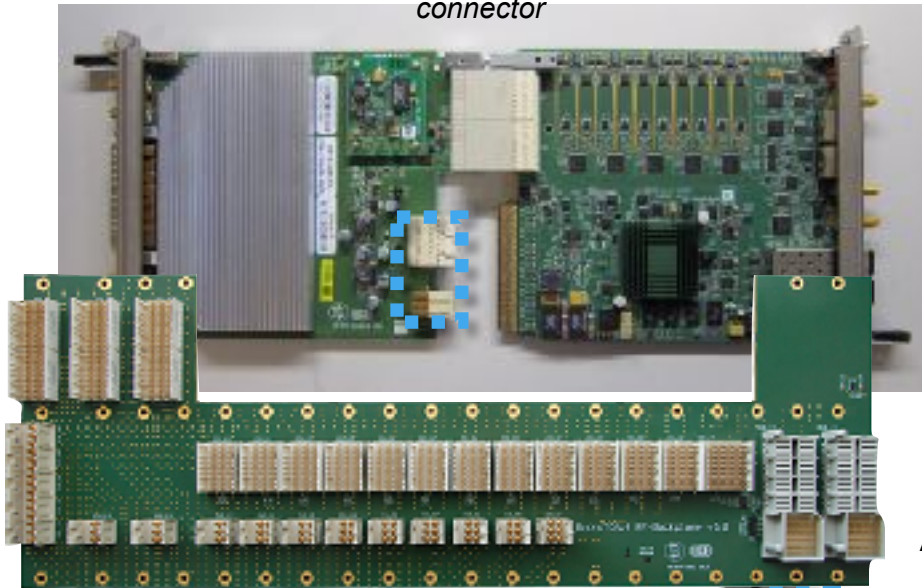


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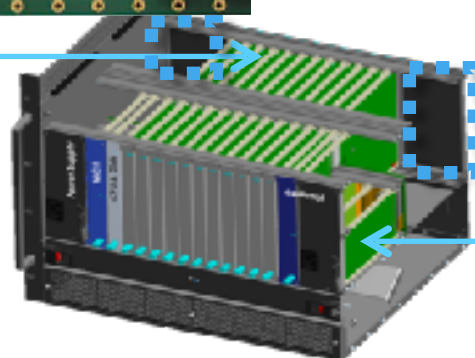


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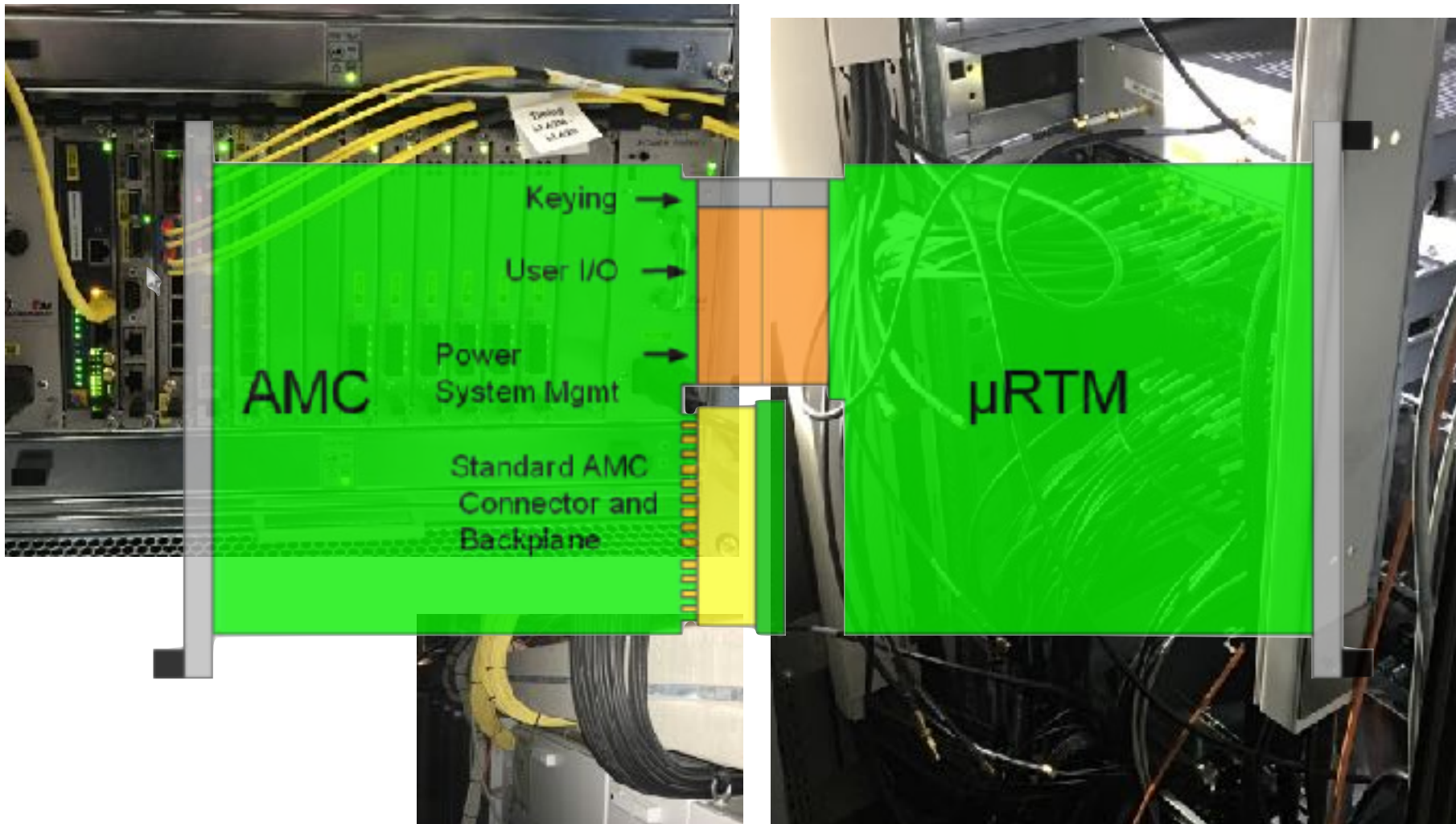






# Advantage

## Standard: MTCA.4

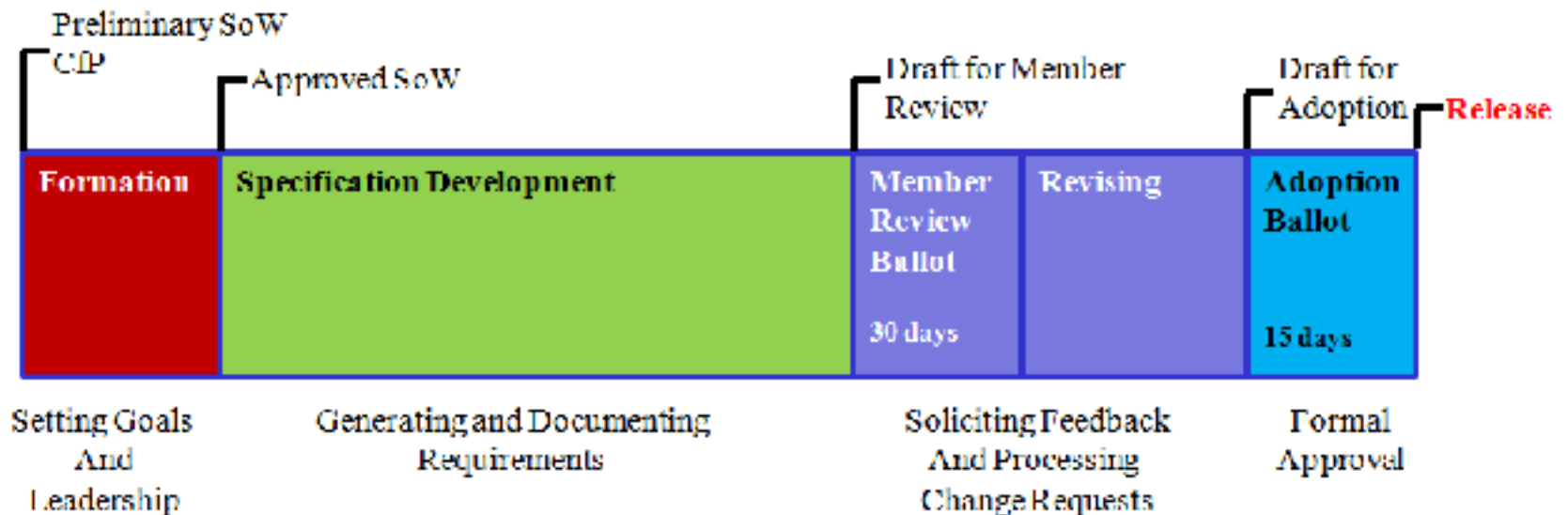




# Move Solution to Open Standard MTCA.4

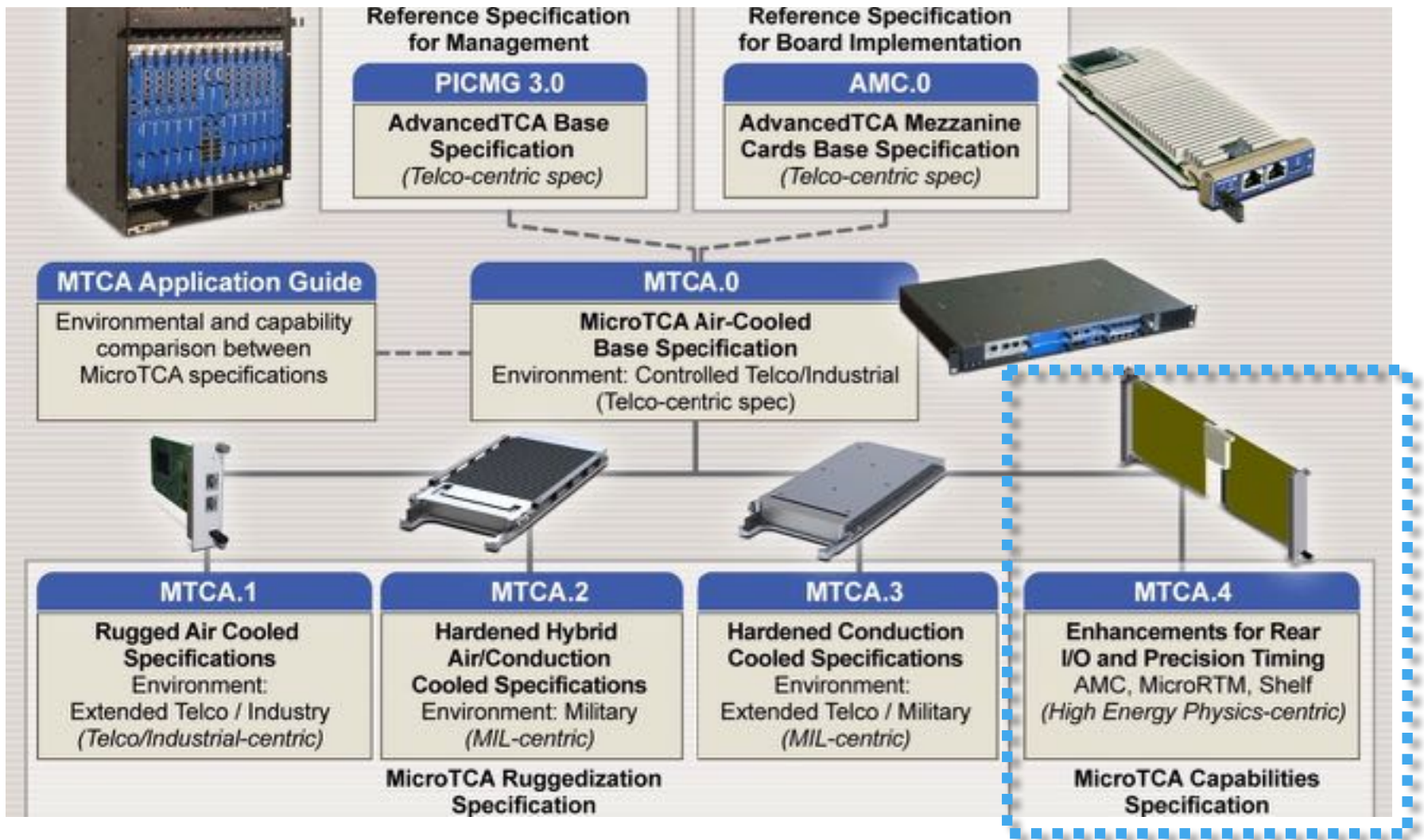


- 2010: MicroTCA.4 Standard
  - Rear Transition Modules
  - Low Latency Point to Point connections at Port 12-15
  - Timing and Trigger Bus at Port 17-20





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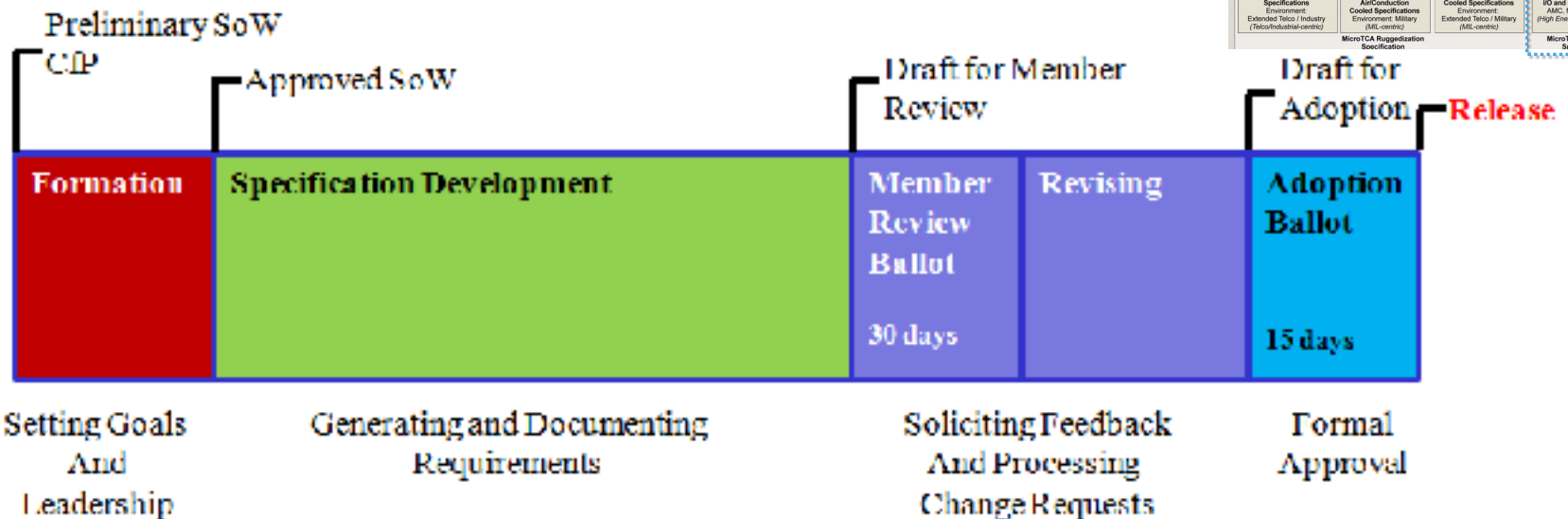
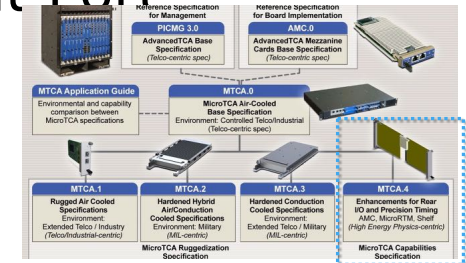




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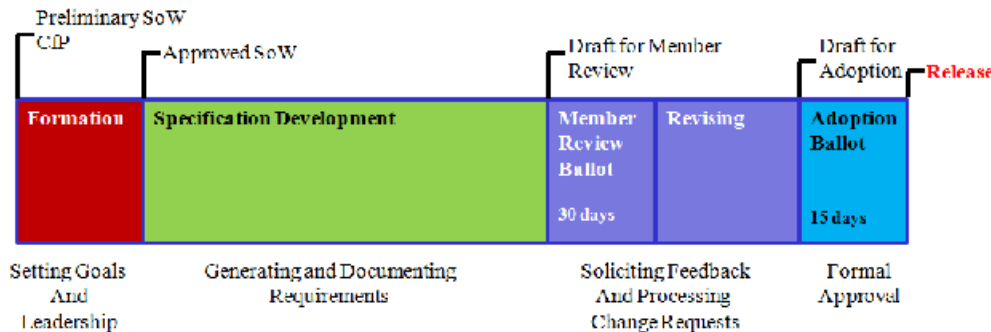
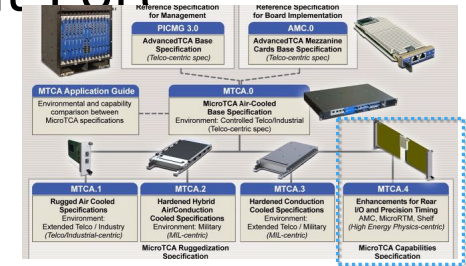




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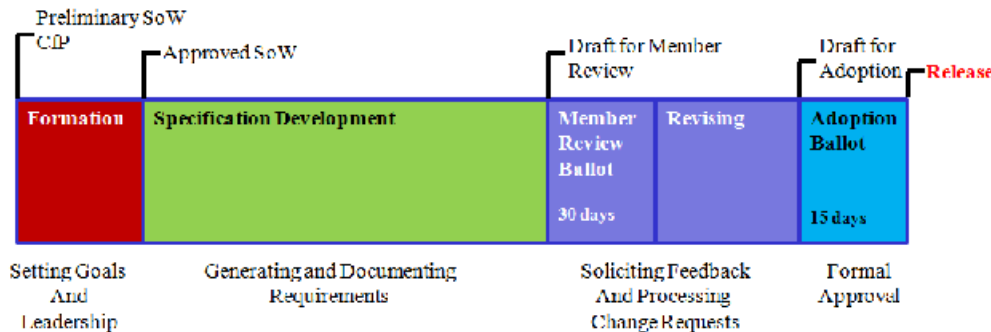
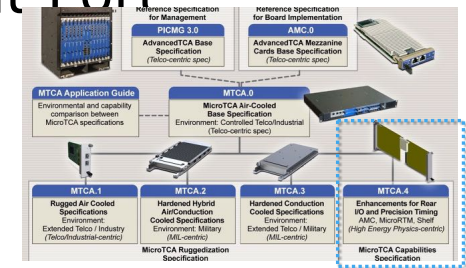




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# Markets

## COMe, ATCA, CPCI serial, MTCA, AMC



Our diverse membership allows PICMG to develop compelling specifications in multiple markets. PICMG technologies are widely used in a broad swath of industries including industrial automation, military/aerospace, transportation, communications, test/measurement, physics/research, energy, medical, and more!

	COM Express	AdvancedTCA	CompactPCI	CompactPCI Serial	HPM	MicroTCA / AMC	SHB
<b>Industrial Automation</b>	X		X	X		X	X
<b>Gaming</b>	X						
<b>Telecommunications</b>	X	X			X	X	
<b>Aerospace</b>	X		X	X	X	X	
<b>Defense</b>	X	X	X	X	X	X	X
<b>Railway</b>	X		X	X	X	X	
<b>Energy</b>	X		X	X	X	X	X
<b>Medical</b>	X		X	X	X	X	
<b>Test / Measurement</b>	X	X	X	X	X	X	
<b>Physics</b>		X			X	X	X
<b>Drones / UAV</b>	X		X	X	X	X	

Open  
VPX

?

X

X

Source: <https://www.picmg.org/wp-content/uploads/picmg.2017.brochure-1.pdf>