

SpaceWire backplane

Osaka University

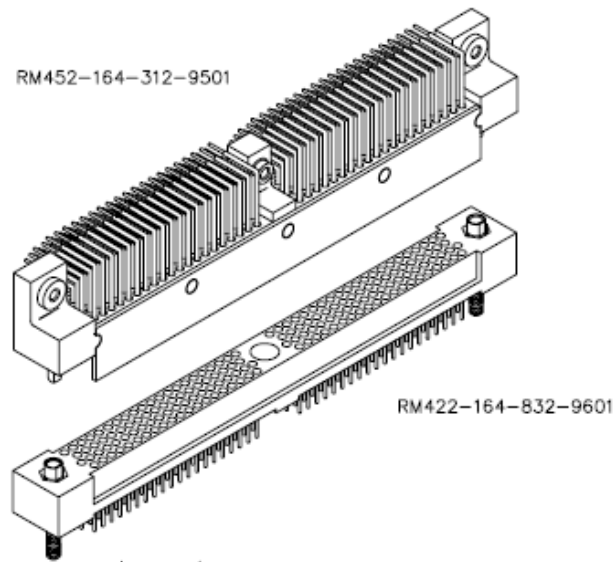
M. Nomachi

Developed in collaboration of JAXA and MELCO

Concept

- Use conventional connector for high speed data transfer
- Performance for SpaceFiber era.
- Easy prototype in ground.

connector

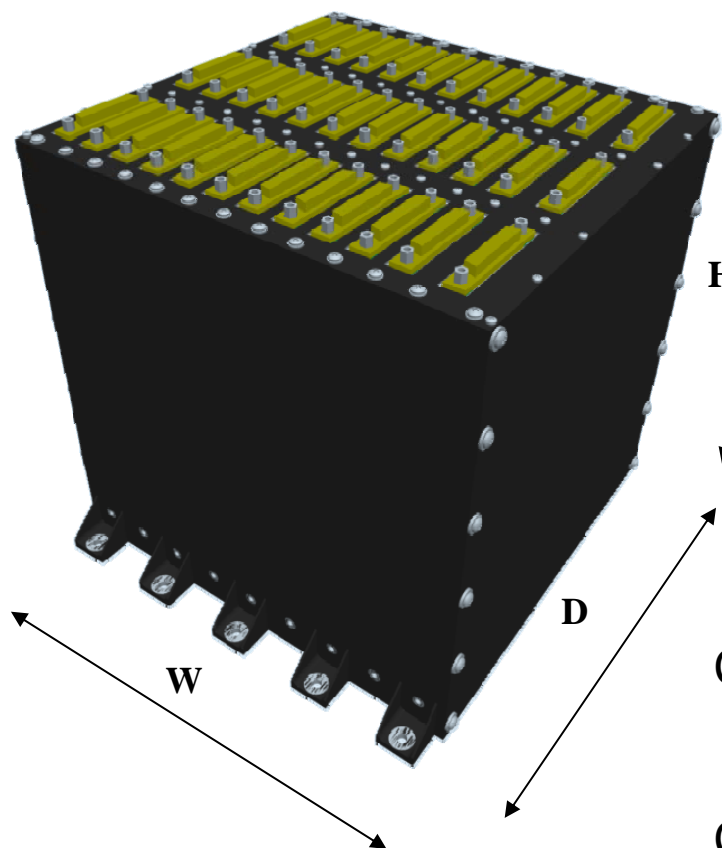


■RM452-110-312-9500 :
Pin, Module, right angle

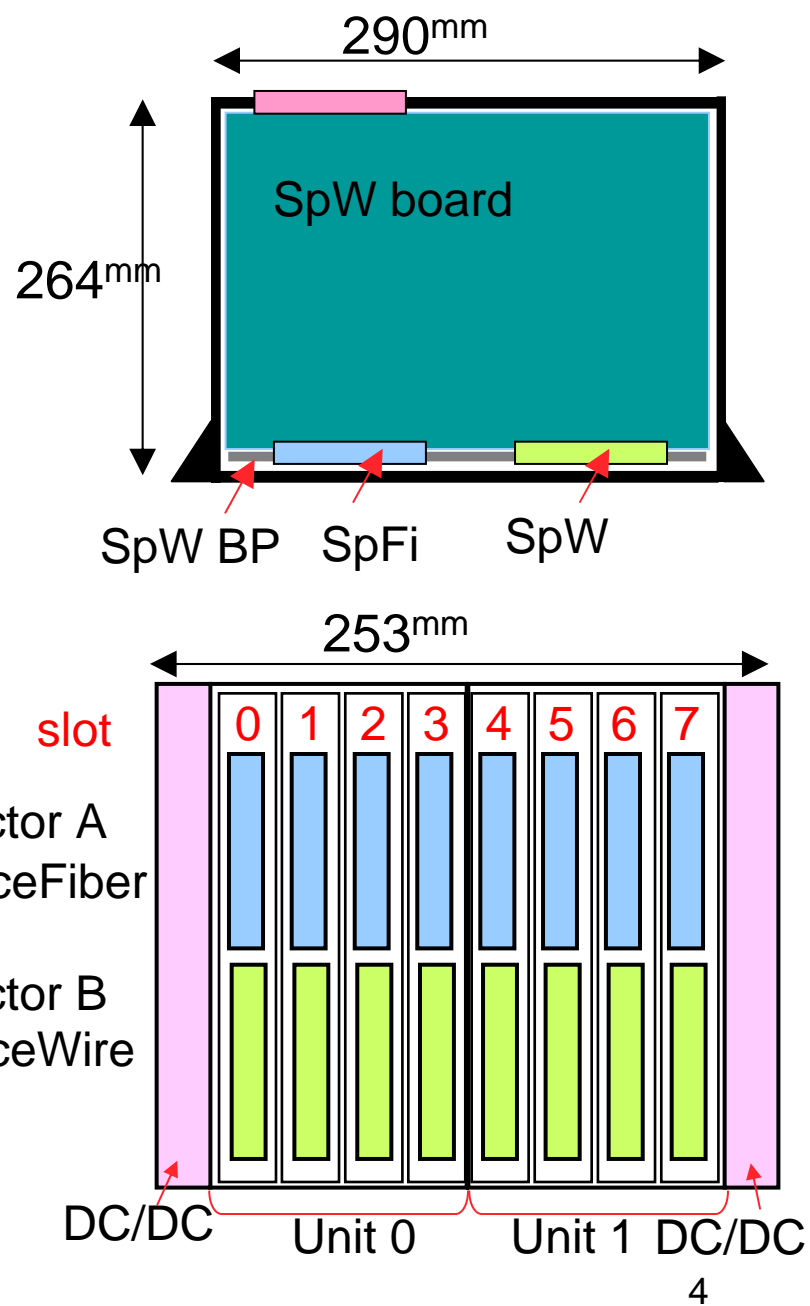
■RM422-110-832-9600 :
Receptacle, Backplane

<http://www.airborn.com/index.cfm>

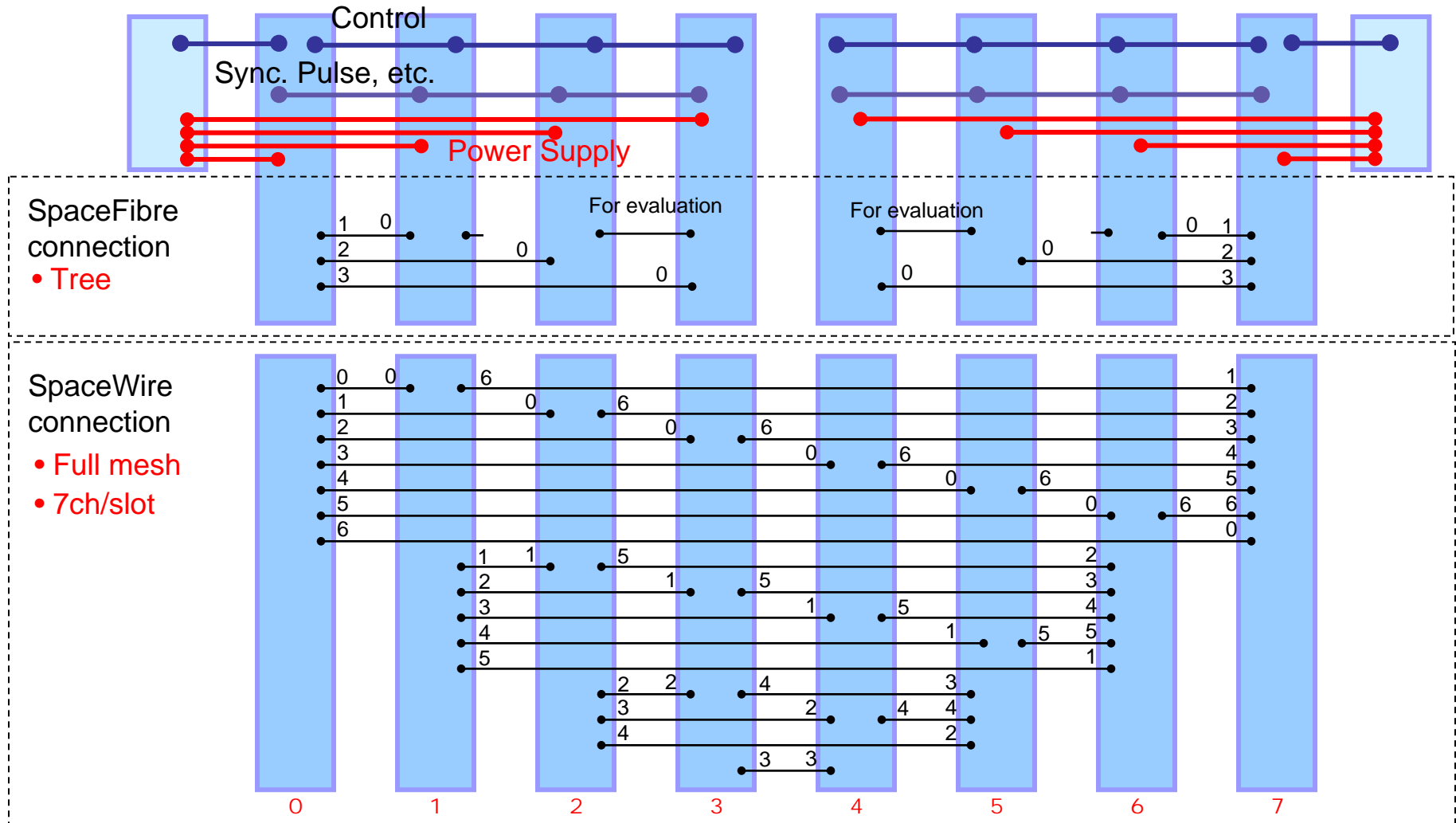
The performance is reported in Nara and SpW WG #13



•Size: 290 x 253 x 264 [mm]



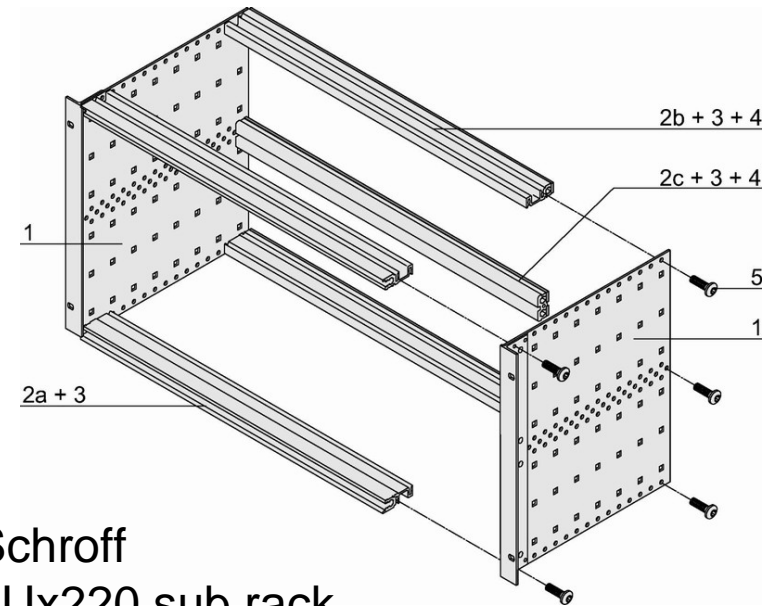
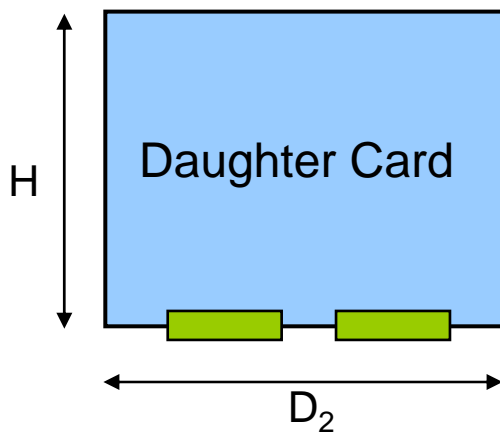
Backplane topology



Ground system

	Ground model 6Ux223 Euro card	Flight model Melco component
Daughter Card ($D_2 \times H$)	233 x 223	265 x 223

Use the same backplane
The same layout for daughter boards



Schroff
6Ux220 sub rack