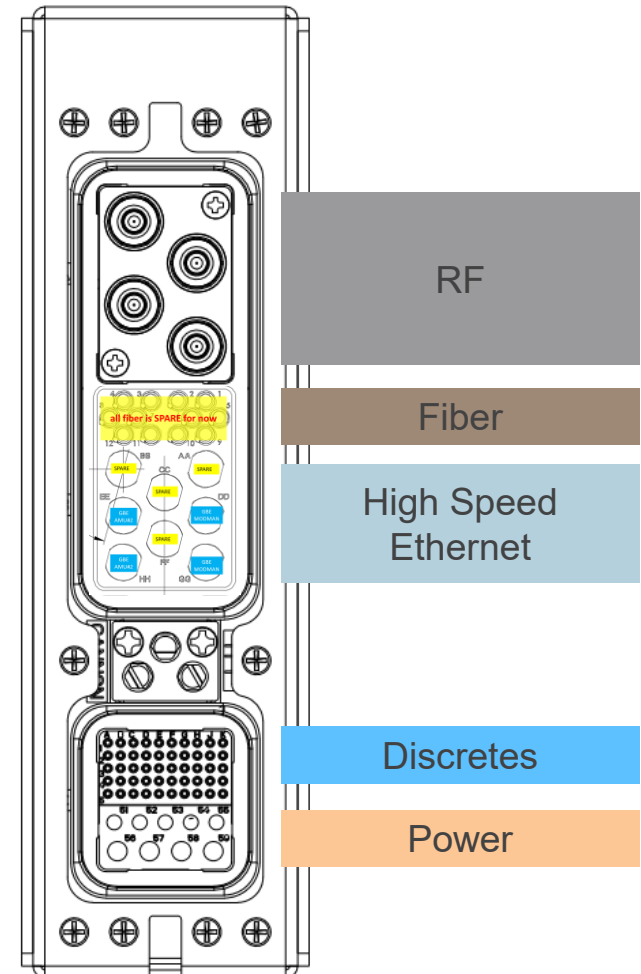


AMU ARINC 600 PROPOSAL

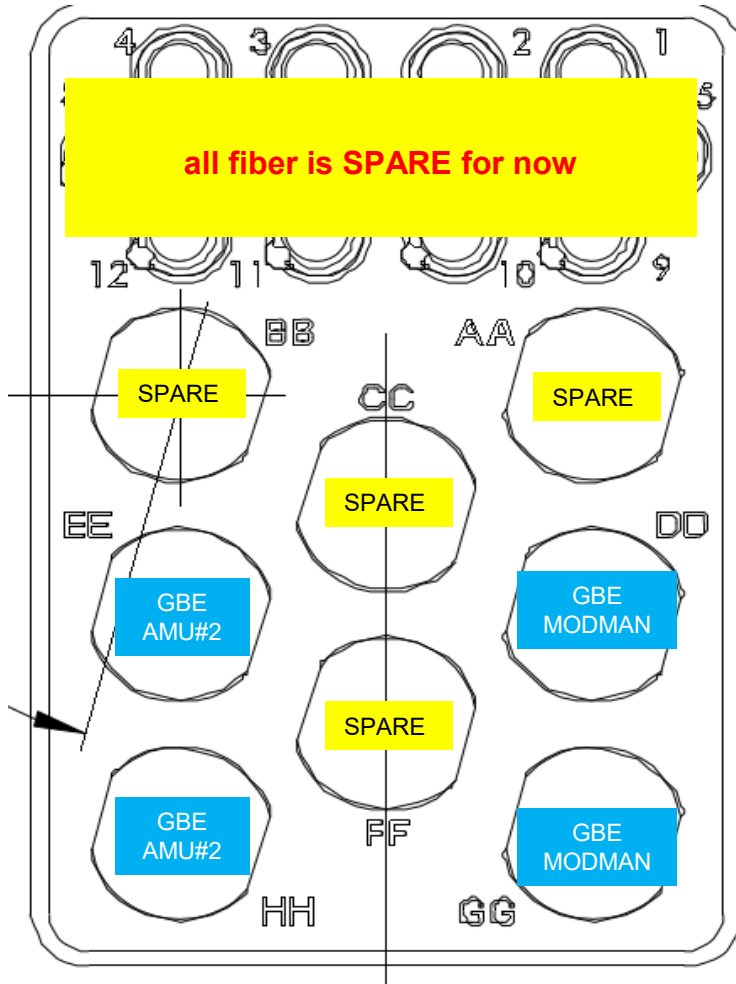
- ▼
- ▶ Widely used arrangement for modem connectivity systems in the market by different companies with many years in the field.
- ▶ Allows for a proven manufactureable method in a 2MCU form factor that can be compatible with the different modem board offerings in the market.
- ▶ Optimal EMI design approach for separation of RF, digital, analog and power.
- ▶ Cavity A: Best Available RF Coax contact size for termination and minimal signal loss. Minimal signal loss is important when connecting multiple systems together.
- ▶ Cavity A: Can be non-installed in the future when RF connections are replaced by the Fiber Option in Cavity B (see slide 4).
- ▶ Cavity B: Utilize proposed arrangement from AMU working group. Change Quadrax Pinout as shown (see slide 2).
- ▶ Cavity C: Provides sufficient discrete pin options including Manufacturing Options, GND, ISO_GND along with future growth. Extra unused pins can support other non AMU product use cases - Provides more value to the product/business cases
- ▶ Cavity C: Power input similar to other designs in the market
- ▶ Cavity C: AC Power input or DC Power input pins



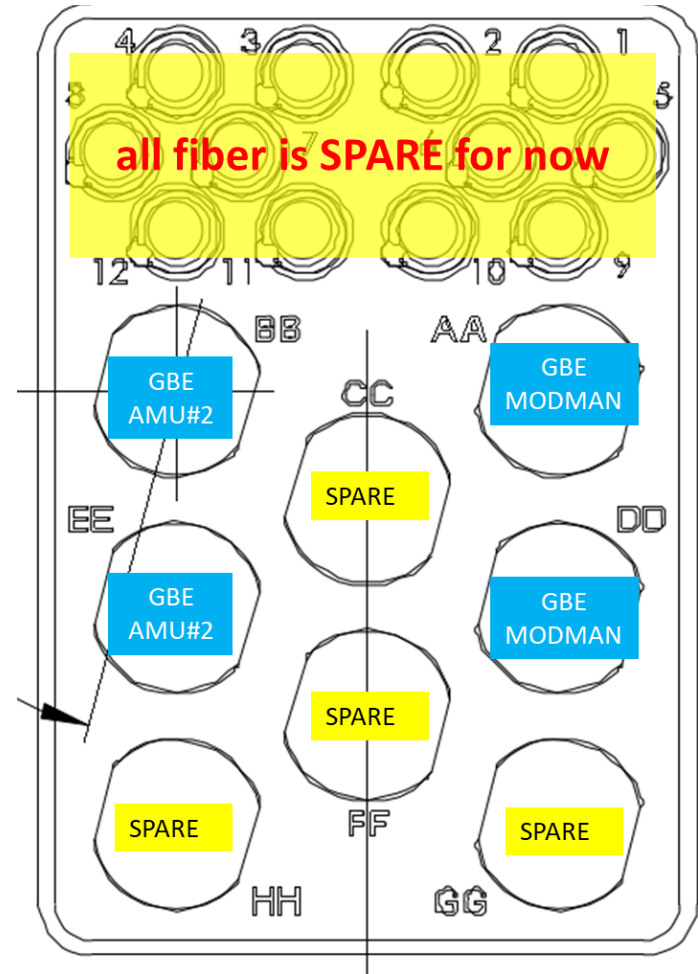
CAVITY B



Kontron Request:



Currently Proposed:



CAVITY C



CAVITY C SIGNALS		
PIN	NAME	DESCRIPTION
A1	POWER FAIL (OUT)	Reserved – PSU Fail
A2	AMU CONTROL (IN)	RF switch select AMU as active or pass-through for RF path
B1	SIGNAL GND	Isolated Ground
B2	Tx MUTE (IN)	Reserved - Mute the Modem Transmit
C1	Rx LOCK (OUT)	Reserved - Modem has lost lock
C2	GND	
D2	KEY OUT -	KEYLINE to KANDU
E1	AMU STATUS (OUT)	Indicates Modem status
E2	KEY OUT +	KEYLINE to KANDU
F2	KEY IN -	KEYLINE to MODMAN
G2	KEY IN +	KEYLINE to MODMAN
J1	LRU ENABLE (IN)	Enable the PSU PWR to Modem
51	28 VDC RETURN	Reserved - DC Power Return
52	AC RETURN	AC Power Return
53	Chassis	Chassis
54	AC	AC Input Power
55	28 VDC	Reserved - DC Power

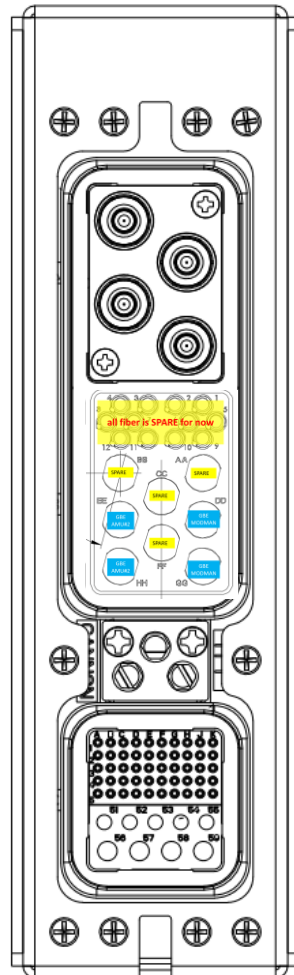
ARINC 600 CONFIGURATION OPTIONS



Option 1

Option 1 –

Allows for RF signal routing through Cavity A Coax Contacts with Optional RF in Cavity B



Option 2

Option 2 –

Allows for blanking Cavity A when Coax RF is not used and routed through Fiber in Cavity B

