

Amphenol Military High Speed

40-60 Delaware Ave

Sidney, NY 13898

To Whom It May Concern:

Amphenol will be demonstrating the similarities in design to support the claim of explosive atmosphere testing similarity between the CF-020011-433 and CF-020400-062 switch boxes.

Per Test Report TR-PR131850-3, Revision 1, the product CF-020011-433 was tested to meet explosive atmosphere requirements in RTCA DO-160D Category E.

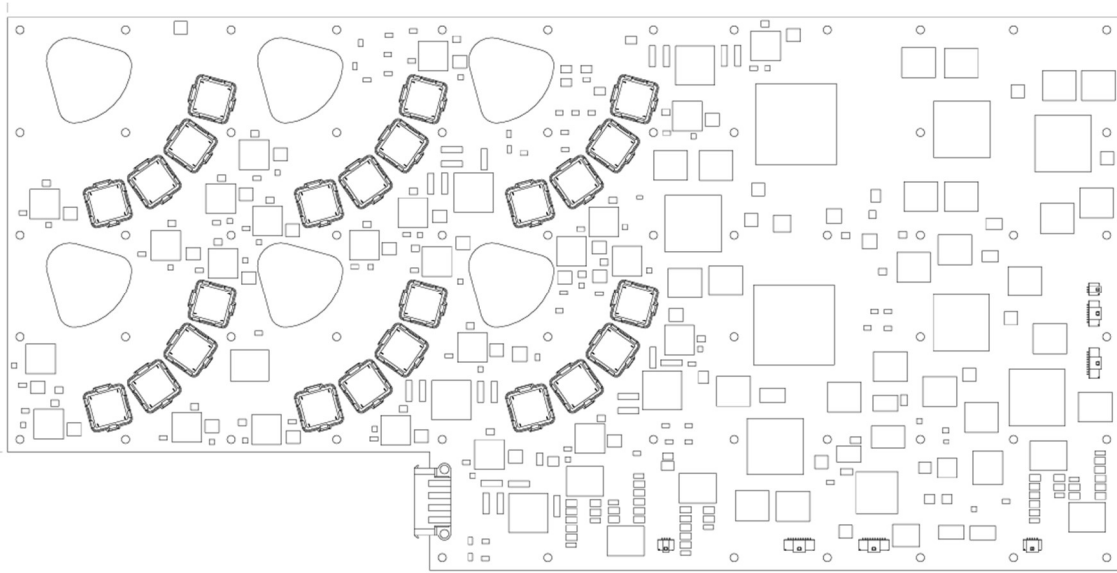
The below table details the comparisons between the two boards to show the similarities in operation and components. The switch operation is identical save for the channel count.

In addition, the chassis housing is constructed the same, with the aluminum alloy front and back piece, held together with captive screws. The difference is the overall size of the box.

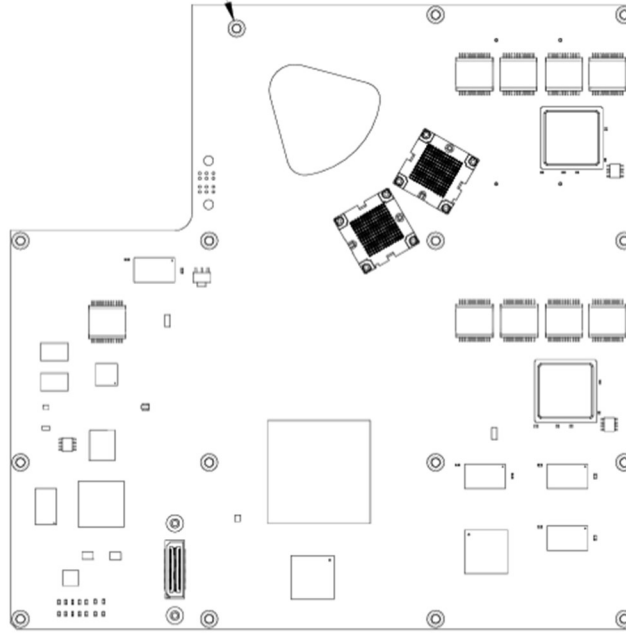
Finally, the electrical components are all similar or used for identical operation. In general, Amphenol's mechanical and electrical design standards choose similar components from proven vendors. To maintain the requirement of the explosive atmosphere, neither design uses any active sparking components.

The next two pages summarizes and compares the different specifications as well as shows a picture of the layout to show the similarity of the two designs. Embedded in this document is also the Adobe Acrobat PDF test report containing the completed testing of CF-020011-433 explosive atmosphere.

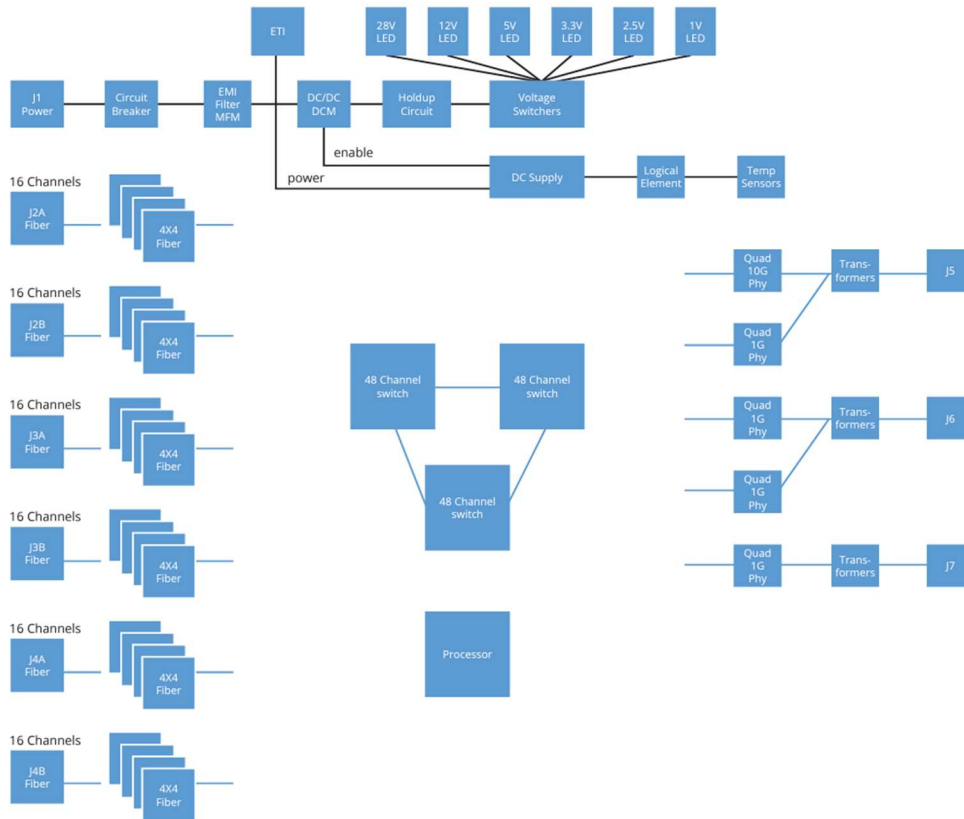
	CF-020011-433	CF-020400-062
Operation	120 channels <ul style="list-style-type: none"> • 24 copper 100/1G/10GBASE-T • 96 fiber 1GBASE-SX or 10GBASE-SR 	32 channels <ul style="list-style-type: none"> • 8 copper 100/1G/10GBASE-T • 24 fiber 1GBASE-SX or 10GBASE-SR
Main PCB Part Number	CF-170300-220	CF-170300-294
Housing Material	Machined Aluminum alloy per AMS4027	Machined Aluminum alloy per AMS4027
Power PCB Part Number	CF-170300-219	CF-170300-293
Input Power	28 VDC	28 VDC
Operating Temperature	-40 to 85C	-40 to 85C
Estimated Power Consumption	290 W	100 W
EMI Filter	Present	Present
ETI	M7793/1-013	M7793/1-013



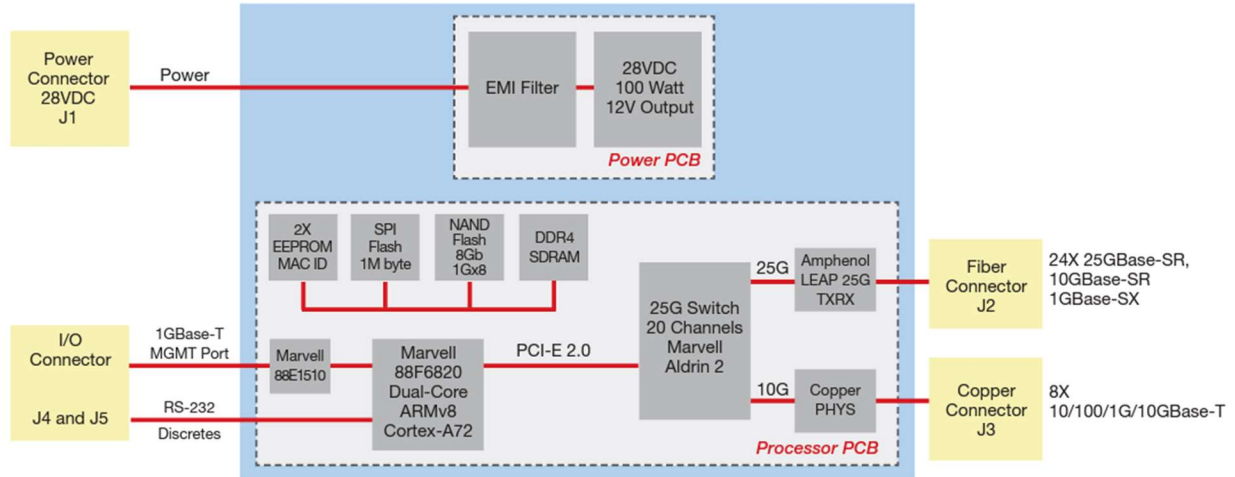
CF-020011-433 Main PCB



CF-020400-062 Main PCB



CF-020011-433 Block Diagram



CF-020400-062 Block Diagram



Acrobat Document

CF-020011-433 Environmental Test Report