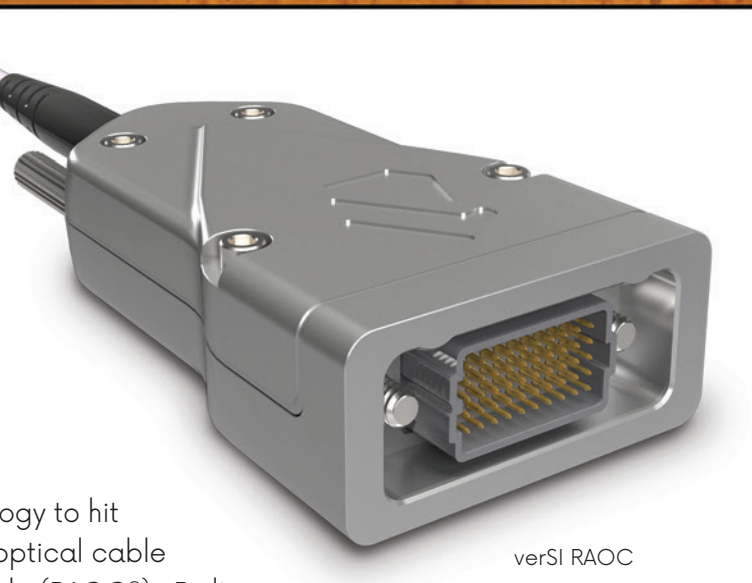
Reliably Connected in the Heat of Battle

RAOCF-11.19

FOCuS®



verSI RAOC

Revolutionary Data Communications for Mil/Aero Applications

AirBorn is excited to introduce the latest disruptive technology to hit the Mil/Aero market in a generation. Our FOCuS® active optical cable technology now embodies the Rugged, Active Optical Cable (RAOC®). Built on our proven, high-speed verSI connector platform, RAOC® exemplifies all the benefits of fiber with the ease & reliability of copper.

The verSI-based RAOC® is designed to operate at 12 Gb/s. Features such as multiple points-of-contact, optimal material tensile strength, and metal backshells ensure that RAOC® is designed and tested for complete reliability in the heat of battle, when lives are on the line.

AirBorn

AirBorn Inc. | p. 512.863.5585 | www.airborn.com/aoc

Performance*

Parameter	Symbol	Unit	Min	Max
Supply Voltage	Vcc	V	-0.3	3.3
Storage Temp Range	Ts	C	-55	125
Case Operating Temp. Range	Ta	C	-40	90

Parameter	Min	Typical	Max
Pressurization	10-9 torr	-	775 torr
TID Radiation hardening		100 krad	
SEE MeVcm2/mg		> 40	
Fiber Tension			30 N
Fiber Bend Radius			7 cm

Parameter	Unit	Min	Typical	Max
Operating Voltage	Vdd1	3.15	3.3	3.45
Data Rate per Channel	Gbps	1.25	-	12.5
Power consumption	W	-	670mW	1.1
Bit Error Rate	BER	-	-	10_{-15}
Tx Differential Input voltage	mVp-p	500	1000	1600
Input Differential Impedance	Ω	-	100	-
Rx Differential Input voltage	mVp-p	500		950

*All data subject to final qualification test data completion.

Pin-Out Details*

Pin Out	Signal	Pin Out	Signal	Pin Out	Signal
A1	MODSELL	C1	GND	E1	RESETL
A2	GND	C2	GND	E2	GND
A3	GND	C3	GND	E3	GND
A4	RX2-N	C4	RX1-N	E4	SCL
A5	RX2-P	C5	RX1-P	E5	SDA
A6	GND	C6	GND	E6	GND
A7	GND	C7	GND	E7	GND
A8	TX3-P	C8	TX4-P	E8	FLAGL
A9	TX3-N	C9	TX4-N	E9	3.3V
A10	GND	C10	GND	E10	3.3V
B1	GND	D1	GND		
B2	RX4-N	D2	RX3-N		
B3	RX4-P	D3	RX3-P		
B4	GND	D4	GND		
B5	GND	D5	GND		
B6	TX1-P	D6	TX2-P		
B7	TX1-N	D7	TX2-N		
B8	GND	D8	GND		
B9	GND	D9	GND		
B10	GND	D10	MODRDYL		

*All the above pin-out details are specific to the verSI SAOC interconnect only.