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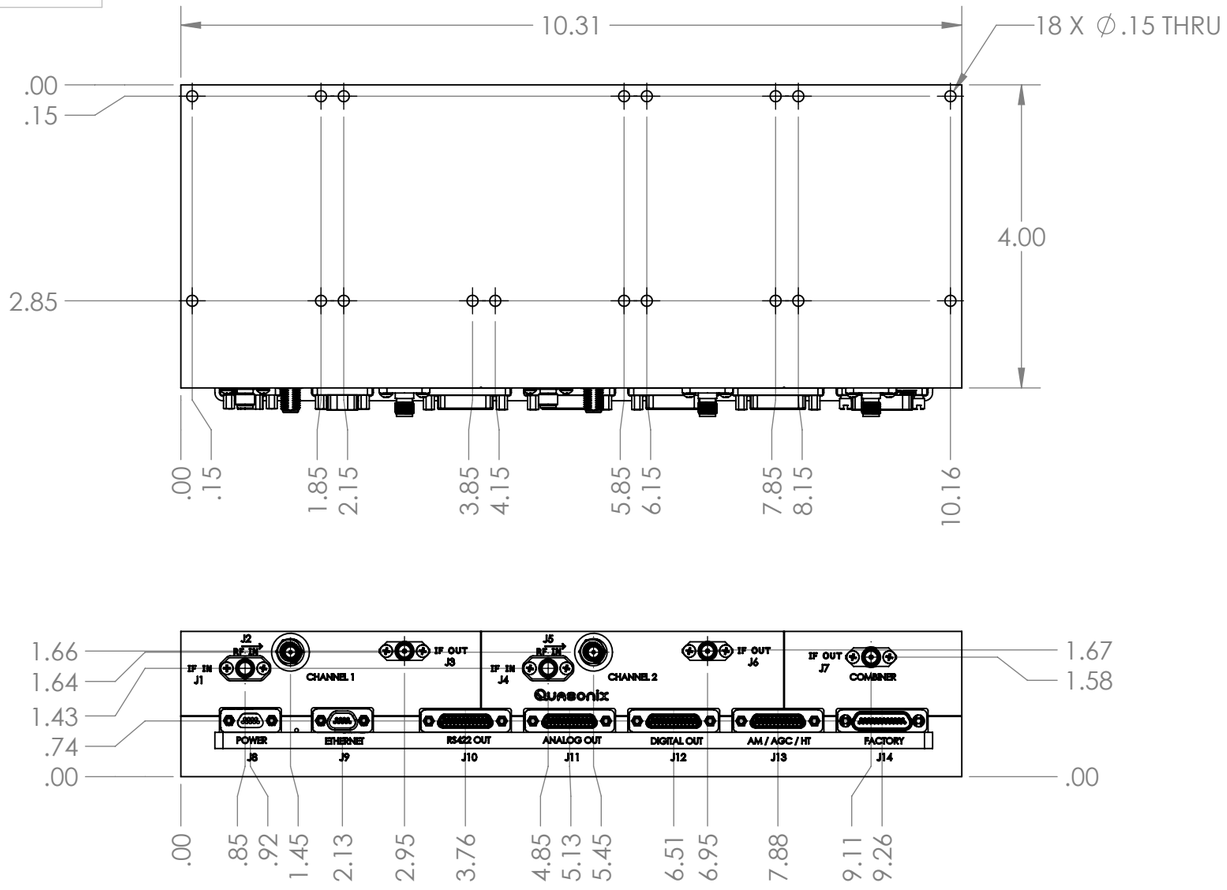
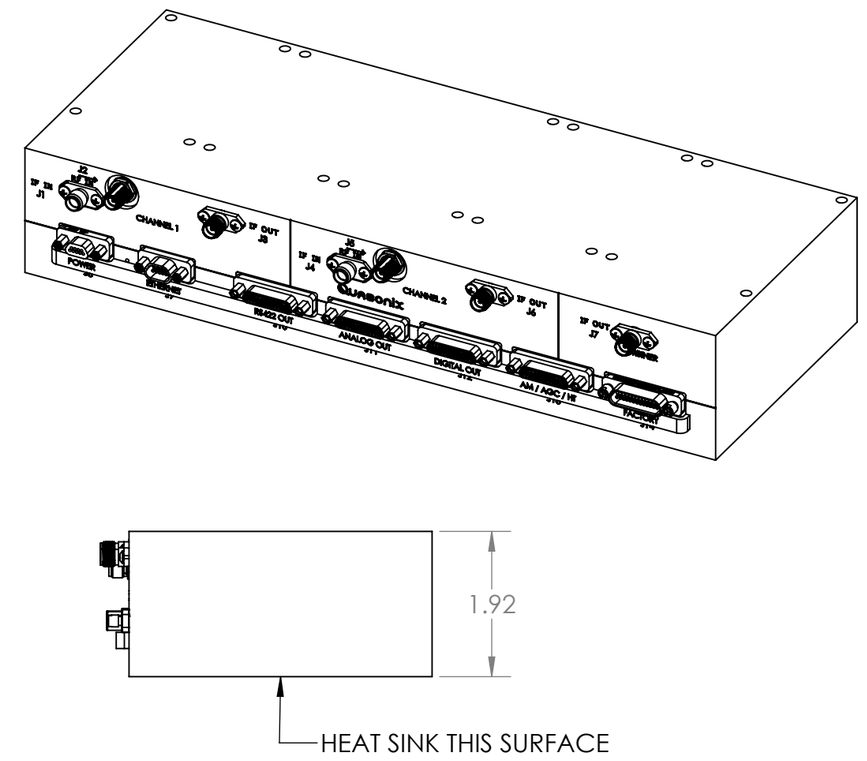
REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	8/9/2023	NFE





SPECIFICATIONS

SIZE / WEIGHT: 10.31" X 4.00" X 1.92" / 80 OZ
OPERATING TEMPERATURE: -20°C TO +70°C
NON-OPERATING TEMPERATURE: -40°C TO +85°C
OPERATING HUMIDITY: 0 TO 95% (NON-CONDENSING)
VIBRATION: 20 G, 5 HZ TO 2 KHZ (ALL AXES)
ACCELERATION: 100 G (ALL AXES)
SHOCK: 100 G PK, HALF-SINE, 5 MS (ALL AXES)
ALTITUDE: UP TO 100,000 FT
VOLTAGE: 28 VDC ± 4 VDC
CURRENT: 2.4 A TYPICAL, 3.5 A MAX AT 25°C BASEPLATE AND 28 VDC
INRUSH CURRENT: 12 VDC, 3.3 A MAX (AS MEASURED WITH A FLUKE I30S AC/DC CURRENT CLAMP)

UNLESS OTHERWISE SPECIFIED:
DIMENSIONS ARE IN INCHES
TOLERANCES ARE:
ANGULAR: MACH ±1 BEND ±1
ONE PLACE DECIMAL ±0.1
TWO PLACE DECIMAL ±0.01
THREE PLACE DECIMAL ±0.003
FRACTIONS ±1/32
DO NOT SCALE DRAWING

HOLE DIA.	TOLERANCE
.0135 THRU .125	+.004 -.001
.126 THRU .250	+.005 -.001
.251 THRU .500	+.006 -.001
.501 THRU .750	+.008 -.001
.751 THRU 1.000	+.010 -.001
1.001 THRU 2.000	+.012 -.001

	NAME	DATE
DRAWN	NFE	08/09/2023
ENG APPR.	NFE	08/09/2023

MATERIAL:

FINISH:

Quasonix

TITLE:
COMPACT RECEIVER COMBINER
INTERFACE CONTROL DOCUMENT

SIZE	DWG. NO.	REV
B	QS-RX-3RCDHT_ICD	A

SCALE: 1:2 | CAGE CODE: 3CJA9 | SHEET 1 OF 3

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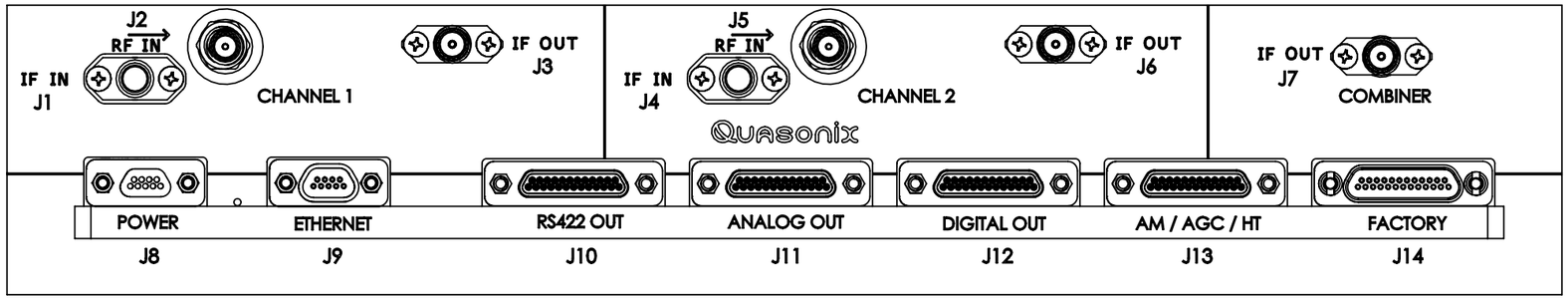

DESIGNATOR	FUNCTION	CONNECTOR
J1	CHANNEL 1 IF INPUT	SMA FEMALE
J2	CHANNEL 1 RF INPUT	SMA FEMALE
J3	CHANNEL 1 IF OUTPUT	SMA FEMALE
J4	CHANNEL 2 IF INPUT	SMA FEMALE
J5	CHANNEL 2 RF INPUT	SMA FEMALE
J6	CHANNEL 2 IF OUTPUT	SMA FEMALE
J7	COMBINER IF OUTPUT	SMA FEMALE
J8	28VDC POWER	MDM-9 PLUG
J9	ETHERNET	MDM-9 SOCKET
J10	RS-422 CLOCK/DATA OUT	MDM-25 PLUG
J11	ANALOG OUT (VIDEO)	MDM-25 PLUG
J12	DIGITAL OUT (TTL CLOCK/DATA)	MDM-25 PLUG
J13	AM/AGC/HT	MDM-25 PLUG
J14	FACTORY	MDM25 SOCKET

Compact Receiver/Combiner

	Channel 1	Channel 2	Combiner
RECEIVER NOMENCLATURE	CONNECTOR NUMBER/PIN	CONNECTOR NUMBER/PIN	CONNECTOR NUMBER/PIN
28VDC Power	J8-4		
28VDC Power	J8-5		
28VDC Power	J8-8		
28VDC Power	J8-9		
28VDC Return (GND)	J8-1		
28VDC Return (GND)	J8-2		
28VDC Return (GND)	J8-6		
28VDC Return (GND)	J8-7		
Ethernet RX_p	J9-1		
Ethernet RX_n	J9-6		
Ethernet TX_p	J9-5		
Ethernet TX_n	J9-9		
RS422/Clock A_n	J10-1	J10-5	J10-9
RS422/Clock A_p	J10-14	J10-18	J10-22
RS422/Data A_n	J10-2	J10-6	J10-10
RS422/Data A_p	J10-15	J10-19	J10-23
RS422/Clock B_n	J10-3	J10-7	J10-11
RS422/Clock B_p	J10-16	J10-20	J10-24
RS422/Data B_n	J10-4	J10-8	J10-12
RS422/Data B_p	J10-17	J10-21	J10-25
Ground	J10-13		
I/VIDEO A	J11-9	J11-5	J11-1
I/VIDEO A GND	J11-22	J11-18	J11-14
Q/VIDEO B	J11-10	J11-6	J11-2
Q/VIDEO B GND	J11-23	J11-19	J11-15
VIDEO C	J11-11	J11-7	J11-3
VIDEO C GND	J11-24	J11-20	J11-16
VIDEO D	J11-12	J11-8	J11-4
VIDEO D GND	J11-25	J11-21	J11-17
Ground	J11-13		
TTL Clock A	J12-1	J12-5	J12-9
TTL Clock A GND	J12-14	J12-18	J12-22
TTL Data A	J12-2	J12-6	J12-10
TTL Data A GND	J12-15	J12-19	J12-23
TTL Clock B	J12-3	J12-7	J12-11
TTL Clock B GND	J12-16	J12-20	J12-24
TTL Data B	J12-4	J12-8	J12-12
TTL Data B GND	J12-17	J12-21	J12-25
Ground	J12-13		
TTL/HT_OUT/AM	J13-1	J13-3	J13-5
HT_OUT GND	J13-14	J13-16	J13-18
AGC	J13-2	J13-4	J13-6
AGC GND	J13-15	J13-17	J13-19
TTL Dig 1	J13-7	J13-9	J13-11
TTL Dig2	J13-8	J13-10	J13-12
Aux Analog A	J13-20	J13-22	J13-24
Aux Analog B	J13-21	J13-23	J13-25
Ground	J13-13		
Power on	J14-20	J14-19	J14-18
TXD	J14-15	J14-17	J14-16
RXD	J14-24	J14-22	J14-23
TDI	J14-12	J14-6	J14-21
TCK	J14-8	J14-2	J14-5
TDO	J14-9	J14-3	J14-11
TMS	J14-10	J14-4	J14-14
3.3V	J14-13	J14-7	J14-25
Ground	J13-1		

SIZE	DWG. NO.	REV
B	QS-RX-3RCDHT_ICD	A
SCALE: 1:2	CAGE CODE: 3CJA9	SHEET 2 OF 3

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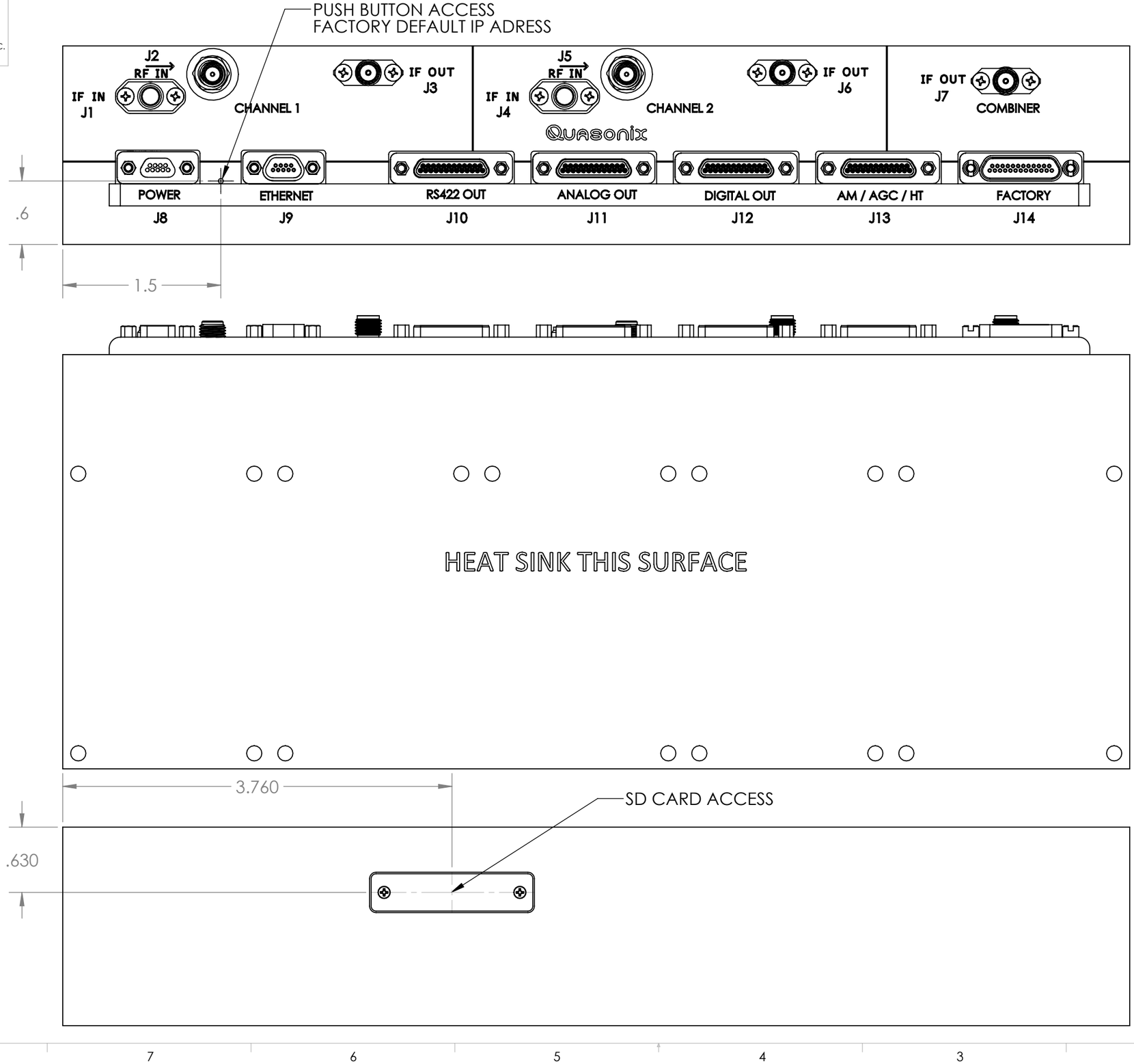

SIZE	DWG. NO.	REV
B	QS-RX-3RCDHT_ICD	A
SCALE: 1:2	CAGE CODE: 3CJA9	SHEET 3 OF 3