



AUTONOMY MODULE

QAC-2

SPECIFICATION SHEET

A rugged computer specifically designed for image and video processing for autonomy applications.



QAC - 2

SPECIFICATIONS	QAC-2
RUGGEDIZATION	
OPERATING TEMPERATURE	-25° to 75°C
IP RATING (CABLES ATTACHED)	IP 65
OPERATING RELATIVE HUMIDITY	85% +/- 3%
REGULATORY	RoHS
SHOCK	28 G, 7ms
VIBRATION	5.2 GRMS
WATER ACCUMULATION	FULLY SEALED ENCLOSURE W/ CUSTOM O_RING
PROCESSING	
MAIN PROCESSOR	THUNDERCOMM RB5
I/O & SAFETY PROCESSOR	ST MICRO STM32F7
GPU	ADRENO GPU 650 ON RB5
RAM	12GB ON RB5
OPERATING SYSTEM	LINUX
PHYSICAL	
HEIGHT	7.0 CM
WIDTH	13.5 CM
DEPTH	24.7 CM
CONSTRUCTION	ALUMINUM
MOUNTING	2x M5x0.8

SPECIFICATIONS	QAC-2
INTERFACE	
INTERLOCK OUTPUTS	(4x) 24V OUT
DIGITAL INPUTS	(4x) 24V ACTIVE HIGH
SWITCH TO GROUND INPUTS	(6x) AVAILABLE
ENCODER INPUTS	(4x) SINGLE-ENDED QUAD 5-26 VDC
ANALOG INPUTS	(8x) 4-20 mA
DIGITAL SAFETY INPUTS	(8x) OSSD SOURCE TYPE
DIGITAL SAFETY OUTPUTS	(10x) 4.7K OPTO ISOLATOR
SERIAL COMMUNICATION	CAN-FD & USB 2.0
SWITCHED POWER OUTPUT	(4x) 24V 1A, (1x) 24V 1.3A, (1x) 24V 1.5A
FUSED POWER OUTPUT	(1x) 24V 4A
LED LIGHTING OUTPUT	(1x) DIGITAL
DISPLAY OUTPUT	(1x) HDMI
CONNECTIVITY & NETWORK	
WIFI	YES
CELLULAR	OPTIONAL W/ 5G MODEM
AVAILABLE CONNECTIONS	(8x) 1000/100/10 BASE-T
ELECTRICAL	
VOLTAGE (RANGE)	18-60 VDC
POWER (NOMINAL)	10W

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