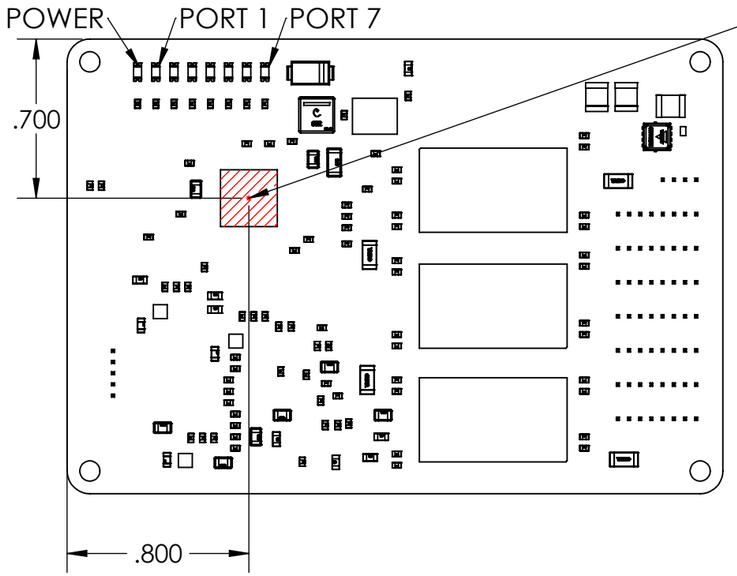
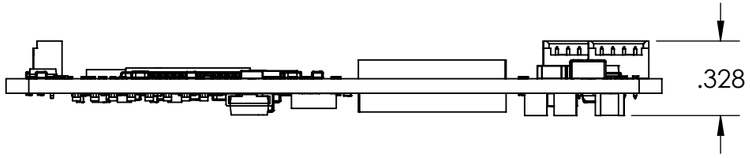
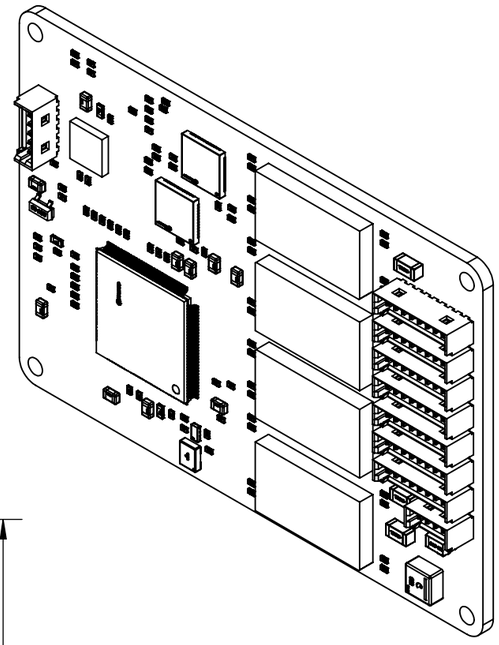
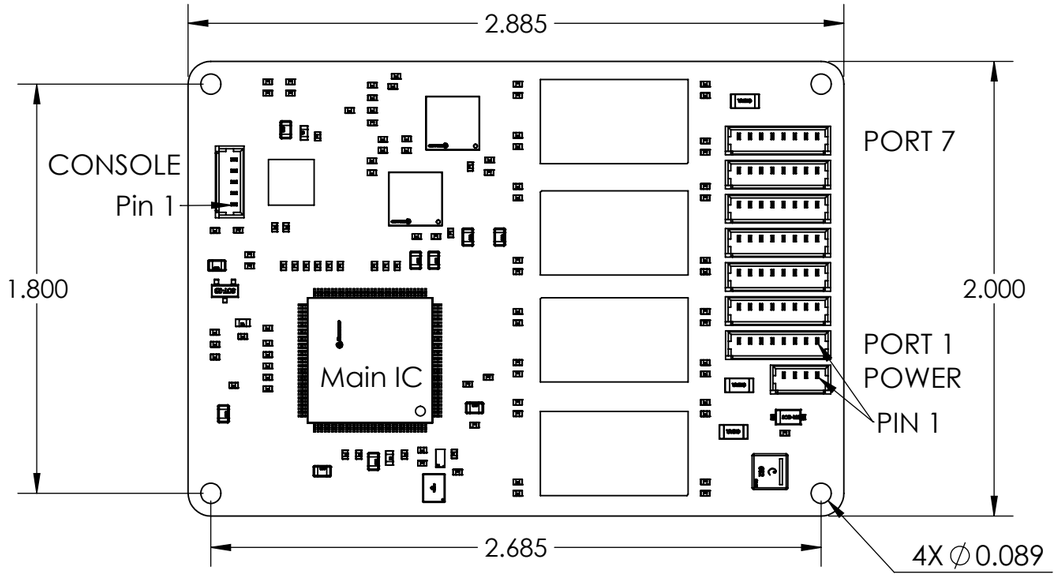


THERMAL NOTES:
This assembly utilizes the industrial-grade main IC (KSZ9897RTXI), rated for an ambient operating temperature range of -40°C to +85°C. The main IC junction temperature must be limited to 125°C. Thermal resistance from the junction to the case (Theta JC) is 1.5°C/W, and junction-to-ambient thermal resistance (Theta JA) is 11.3°C/W.

Heat sinking may be required in high-load applications operating near the upper ambient limit (+85°C) with inadequate airflow. This may be accomplished by using a ~0.25" x 0.25" gap pad and heat sink in the indicated area, or by applying a low-profile heat sink to the top center of the main IC.







7X Ethernet Ports		
Mating Molex Connector: 0510210800		
1	TP3 P	RJ45 P7
2	TP3 N	RJ45 P8
3	TP2 P	RJ45 P4
4	TP2 N	RJ45 P5
5	TP1 P	RJ45 P3
6	TP1 N	RJ45 P6
7	TP0 P	RJ45 P1
8	TP0 N	RJ45 P2
Power		
Mating Molex Connector: 0510210400		
1	GND	
2	GND	
3	VIN	4.5-42 VDC
4	VIN	
Console UART		
Mating Molex Connector: 0510210500		
1	GND	
2	DTR	
3	RX	
4	TX	
5	N/C	

Ports In Use	Power Usage (Watts)
0	3.4
1	3.6
2	3.8
3	4.0
4	4.1
5	4.2
6	4.4
7	4.6

Size: 1.9 in^3
Weight: 26g

PROPRIETARY AND CONFIDENTIAL

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UNLESS OTHERWISE SPECIFIED:
DIMENSIONS ARE IN INCHES
TOLERANCES:
FRACTIONAL ± 1/8
DECIMAL .XX ±0.01 .XXX ±0.005
ANGLES ±1°
DO NOT SCALE DRAWING
MATERIAL
THIRD ANGLE PROJECTION

	NAME	DATE
DRAWN	LM	10/23/2026
CHECKED	JH	-----

COMMENTS:

Gadgetsmyth LLC
1315 West 400 S
Orem UT, 84058

TITLE:
GigEthos Managed Ethernet Switch Drawing

SIZE B
ACS-ETH2-10-ICD RevA

SCALE: 3:2
SHEET 1 OF 1