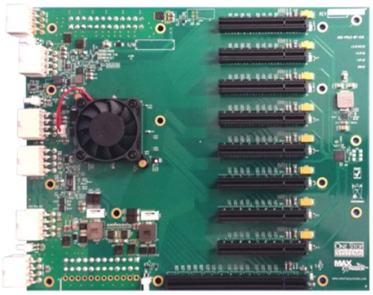
Expansion Backplane, 8 PCIe x8 slots (452)

Part Number: OSS-BP-452

FEATURES

- One OSS PCIe x16 3.0 target slot for OSS target cable adapter
- Eight PCIe x8 3.0 expansion slots (x8 open-back mechanical)
- ATX power input
- Fan speed controller

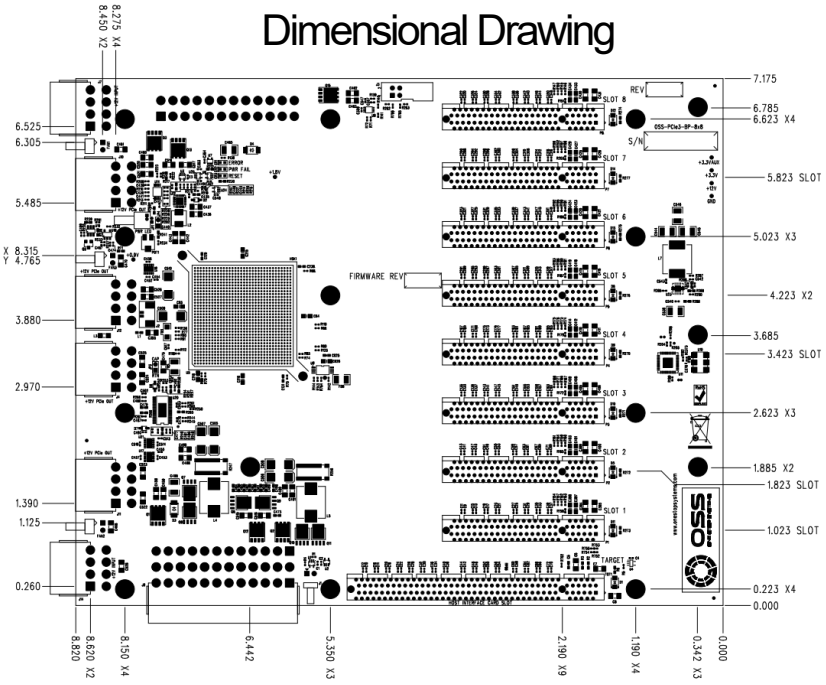


Requires an OSS target adapter card in the host interface card slot. Cable and adapter card sold separately.

SPECIFICATIONS

Dimensions (H*L)	7.175” x 8.82”
Power	ATX
Slots	1 OSS target slot (for OSS target cable adapter only) 8 PCIe x8 3.0 electrical; x8 open-back mechanical

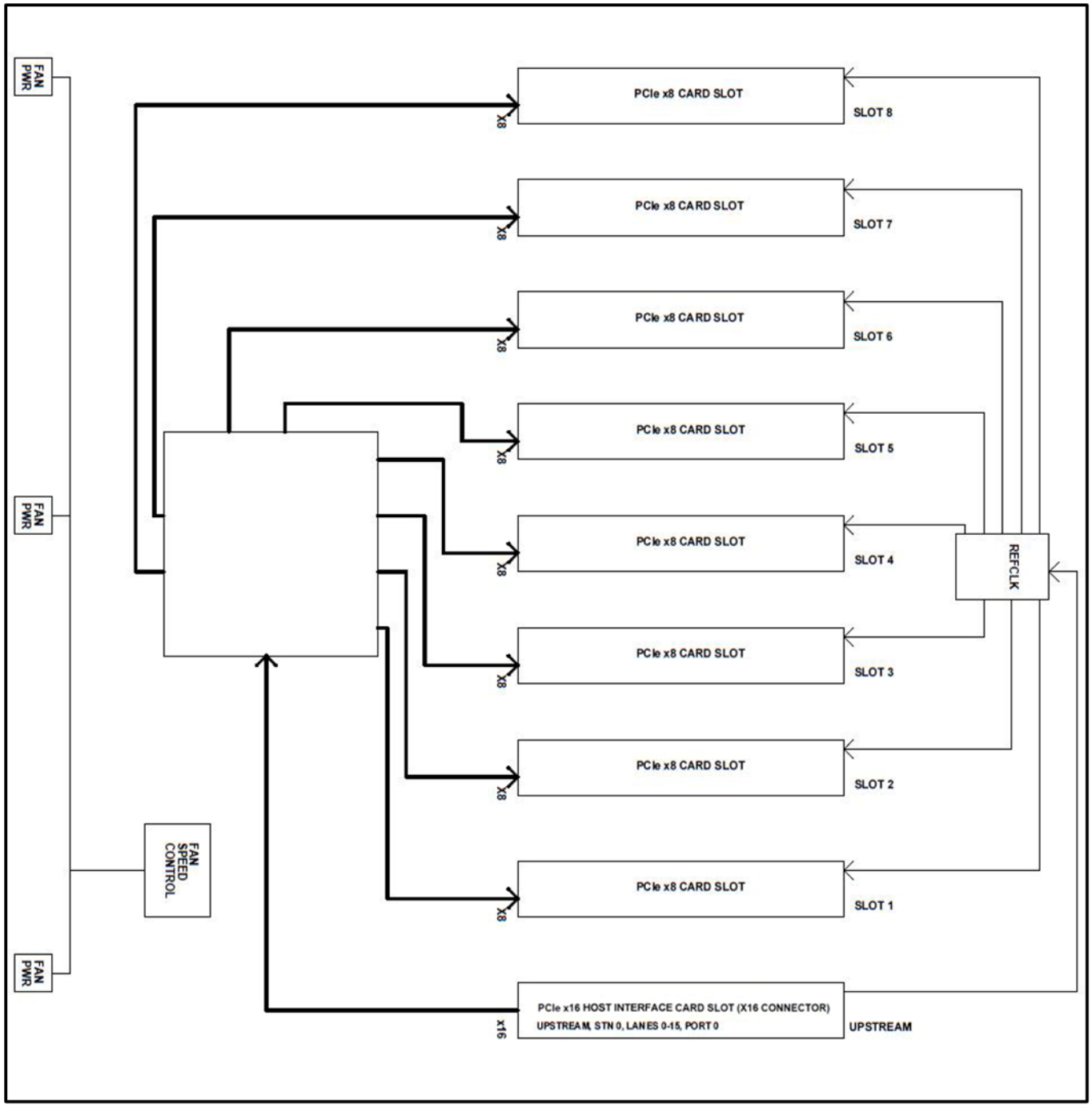
Dimensional Drawing



NOTE: The 452 backplane allows variable speed control on the FAN1 connector using a thermocouple controlled circuit optimized for thermals of the OSS CUBE™ family of products. OEMs should use the other fan connectors (FAN2 & FAN3) for standard 12V power and ground connections.

NOTE: The power ON connector is only used in Thunderbolt cable configurations. Forcing the power ON in PCIe configurations using the header connector on the backplane may cause the expansion backplane to not enumerate properly with the host system.

Block Diagram



Connector Pin-outs

Connector	Definition
J1	Force Power On
J4, J10, J11, J12	12V Output Power
J6, J7, J8, J14	Input Power
JP1, JP5	Power Standby LED
JP3	Fan Speed Control

J6, J8 – Input Power (Molex P/N:87427-2402)

Pin	Definition	Pin	Definition
1	+3.3V	13	+3.3V
2	+3.3V	14	-12V
3	GND	15	GND
4	+5V	16	PS_ON#
5	GND	17	GND
6	+5V	18	GND
7	GND	19	GND
8	PWRON	20	NC
9	+5VSB	21	+5V
10	+12V1	22	+5V
11	+12V1	23	+5V
12	+3.3V	24	GND

J1 – Force Power On (Molex P/N: 22-05-3021)

Pin	Definition
1	PWR_ON#
2	GND

J4, J10, J11, J12 – 12V Output Power (Molex P/N: 87427-0802)

Pin	Definition	Pin	Definition
1	GND	5	+12V
2	GND	6	+12V
3	GND	7	+12V
4	GND	8	+12V

J7, J14 – Input Power (Molex P/N: 87427-0802)

Pin	Definition	Pin	Definition
1	GND	5	+12V
2	GND	6	+12V
3	GND	7	+12V
4	GND	8	+12V

JP1, JP5 – Power Standby LED (Samtec P/N; TFM-102-01-L-S-RA)

Pin	Definition
1	+3.3VAUX
2	GND

FAN1, FAN2, FAN3 – Fan Speed Control (Molex P/N: 22-05-3021)

Pin	Definition
1	FAN_12V_PU
2	FAN_RTN

NOTE: All fans are temperature controlled.