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APPLICATION NOTE

ENABLE*/ INHIBIT* on VITA 62 Power Supplies





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ENABLE*/INHIBIT* on VITA 62, VPX Power Supplies

Description

The **ENABLE*/ INHIBIT*** feature is part of the ANSI/VITA 62.0 Modular Power Supply Standard and is used to control the outputs of a VITA 62 power supply.

- **ENABLE***: Turns off all of the output voltages when it is high, including 3.3V_AUX.
- **INHIBIT***: Turns off all the output voltages, except in most implementations, it is expected to leave 3.3V_AUX on.

Using ENABLE*/INHIBIT* on NAI, VPX Power Supplies

ENABLE* is pulled low by using a mechanical switch, which connects it to SIGNAL_RETURN. A Logic output can also be used to drive the **ENABLE***. Opening the switch would turn off all the outputs, closing the switch or applying the logic output would enable the outputs to come on depending on the state of **INHIBIT***. An input of <0.8vdc is regarded as a low and an input of >2.0vdc is regarded as a high. Regards a no-connect as a High. This signal along with the **INHIBIT*** signal determines the output power status of the power supply.

Pulling **INHIBIT*** Low turns off VS1, VS2, VS3 & ±12vdc Aux outputs. An input of <0.8vdc is regarded as a low and an input of >2.0vdc is regarded as a high. Regards a no-connect as a High. This signal along with the **ENABLE*** signal determines the output power status of the power supply.

Refer to the Power Status table below.

Control Input States		Power Output States	
ENABLE*	INHIBIT*	+3.3V AUX	VS1, VS2, VS3, +12V AUX & -12V AUX
High	High	Off	Off
High	Low	Off	Off
Low	High	On	On
Low	Low	On	Off

On the NAI series of VPX power supplies, **INHIBIT*** is located on the output connector, Pin C2 and **ENABLE*** is located on Pin D2 per the VITA 62 specification. When using a mechanical switch for the **ENABLE*** signal, it should be tied between Pin D2 and the Signal Return Pin.



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