NEXT GENNANO ELECTRONIC SYSTEMS
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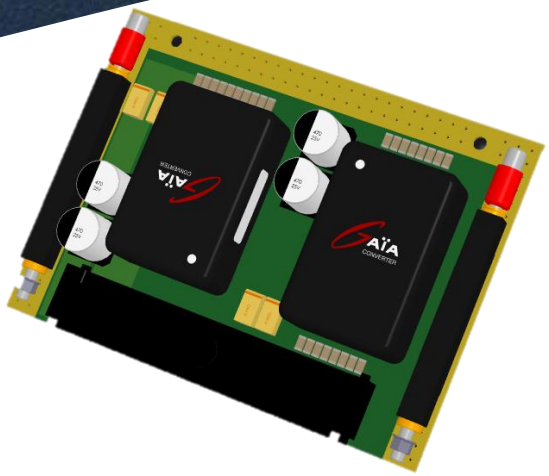
MIL-AERONano – Electronic Payload Module

FILTER TRANSIENT MODULE - FTM

FTM FEATURES

- **28VDC Input compliant with MIL-STD-704A/D/F & MIL-STD-1275A/B/C/D**
  - **Transient Protection 80V/100ms**
  - **Transient Protection 100V/50ms**
- **Wide Temp Range: -40/+105ºC(optional -55 ºC) conduction cooled**
- **Compliance with MIL-STD-461D/E/F**
- **Compliance with DO-160C/D/E/F/G**



The **MILAERONano-FTM** (**Filter Transient Module**) provides an integrated Common mode & differential input filter to meet Electromagnetic Interferences (EMI) requirements for Aerospace and Military applications utilising COTS GAIA Converter filter Modules. Using our **MILAERONano-PPM155** & **MILAERONano-FTM** Payload modules provide compliance against MIL-STD-461 rev D, E and F and DO-160 rev C, D, and E.

The **MILAERONano-FTM** fits in our Vita 74 NanoX AMS System compliant with our 12.5-inch slot. The Payload Module delivers up to 20A of filtered power. The **MILAERONano-FTM** can provide a combined total output power of up to 300W at maximum operating temperature.

The **MILAERONano-FTM** is a very compact low loss filter module solution and complies with major standards including:

MIL-STD-461 Rev D, E, and REV F
DO-160 Rev C, D, E, F & G

In addition to this the filter provides suppression and with stands transient and spike requirements of:

MIL-STD-704A/D/E/F with up to 80V/100ms
MIL-STD-1275A/B/C/D with up to 100V/50ms

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MIL-AERONano – ELECTRONIC PAYLOAD MODULE (EPM)

FILTER TRANSIENT MODULE - FTM

Input Conditions

Parameter	Condition	Limit or Typical	Units	Value
Nominal IP Voltage	Full Temp Range	Nominal	VDC	28
IP Voltage Range	Full Temp Range	Min – Max	VDC	9-50
Transient IP Voltage	Full Temp Range Full Load	Max	VDC/ms	80/100 100/50

Output Conditions

Parameter	Condition	Limit or Typical	Units	Value
OP Current	At 105ºC Baseplate	MAX	A	20
OP Power	At 105ºC Baseplate	Max	W	300
OP Current 12V	Full Temp Range	Max	A	12.5

Physical Characteristics

Dimension W100mm x 73mm
12.5mm Pitch

EMI Compliance

Conducted Emissions	Power Leads	MIL-STD-461D/E/F	CE102
	Power Lines	DO-160 cat B & AZ	Sect 21.
	Power Lines	DO-160D/E/F/G cat b & LMH	Sect 21.
Conducted Susceptibility	50 ohm impedance 10A 10KHz to 400MHz	MIL-STD-461D/E/F	CS115
		MIL-STD-461D/E/F	CS116
		DO-160D/E/F/G	Sect 20.

Environmental Conditions

Cooling Method	**Conduction Cooled**
Operating Temperature	-40 to +85°C
Storage Temperature	-55 to +105°C
Vibration	0.1g2/Hz Max, 5 to 2000Hz
Shock	40g, 11ms sawtooth
Humidity	0% to 95% non-condensing

**Note: Contact us if you require NED or Lightning Protection