

NanoSwitch 4 Ports.

Rugged Airborne Ethernet Switch

etep

4x Ports Gigabit Ethernet Rugged Airborne unmanaged Switch excellent for high-end airborne applications, the NetSwitch/GbE Managed Carrier Ethernet Switch is a highly reliable way to communicate with 10/100/1000 devices in an embedded system, providing four GbE ports with auto-configuration



Hardware Specifications

Ports Type	4 Gigabit Ethernet (10/100/1000 Mbps)
Ethernet Switch Engine	Carrier Grade Ethernet Switch Chipset
Ethernet Connectors	MIL-DLT-38999 Series III Pins
Power Connector	MIL-DLT-38999 Series III (TV P00 ZNCI 09 98 PN)
Input voltage	Wide input range: +16V to +36V DC with Reverse Polarity Protection
Power Consumption	About 4 Watts (1 watt by Ethernet port)
Vibration, Shock, Acceleration	RTCA DO-160G Section 7.2, 7.3 and 8 Cat. S
Altitude	Min: -1500 feet, max: 60,000 feet
MTBF	90 000 Hours (30°C)
Operating Temperature	-45°C to +85°C (DO160 Section 4 Cat. B2)
Storage Temperature	-55°C to 95°C (DO160 Section 4 Cat. B2)
Waterproofness	IP64 / DO160 Section 10 Cat. W
Magnetic Effects, Power Input & Voltage Spikes	DO160 Section 15 Cat. A /Section 16 Cat. Z / Section 17 Cat. A
EMC & Lightning	DO160 Section 18 Cat. Z / 19 Cat. C / 20 Cat. U / 21 Cat. M / 22 Cat. A2XX
Dimensions in mm.	length 135.32 / Width 98.16 / Height 45.14 (without connectors)
Weight ~ Kg [lbs]	≈ 0.6 [1.3]

Key Features

- Four 1000/100/10 Mbps Ethernet ports (MIL-DLT 38999 Serie III connector)
- LED for each Ethernet Port status (10/100/1000)
- Unmanaged Switch
- Passive heat sink included
- Very Low power consumption

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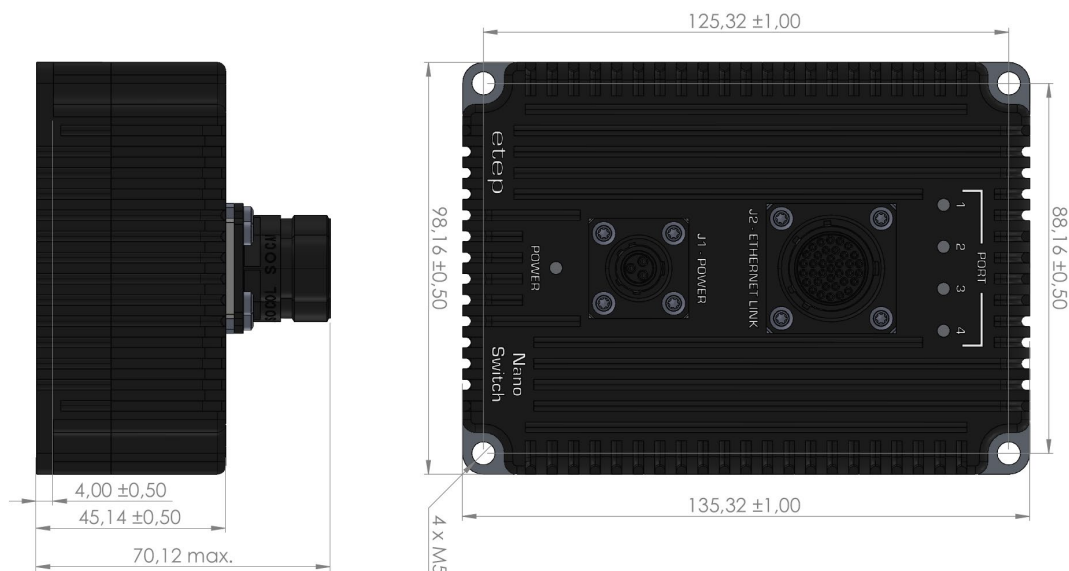
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Connectors Pinout

INPUT 28VDC

POWER	J1
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SOCKET	PLUG
TYPE: SOCKET 3 CONTACTS MALE Manufacturer: AMPHENOL SERIE: MIL-C 38999 SERIE III REFERENCE: TV P00 ZNCI 09 98 PN Socket mark: INPUT 28VDC	TYPE: PLUG 3 CONTACTS FEMALE Manufacturer: AMPHENOL SERIE: MIL-C 38999 SERIE III REFERENCE: TV 06 ZN 09 98 SN Cable mark: INPUT 28VDC

Note:

« MM »	AIRFRAME GROUNDING
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Pin	Signal name	Identification	Color
A	+28VDC AIRCRAFT	+28VA	RED
B	0VDC AIRCRAFT	0VA	BLACK
C	AIRCRAFT GROUNDING	MM	YELLOW

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Gigabit Ethernet Input Pin Contact



ETHERNET LINK

J2

PIN VERSION SOCKET	PIN PLUG
TYPE: SOCKET 37 CONTACTS FEMALE Manufacturer: AMPHENOL SERIE: MIL-C 38999 SERIE III 16/24-PORTS REFERENCE: TV P00 ZN CI 13-37 SN Socket mark: J2 ETHERNET LINK	TYPE: SOCKET 37 CONTACTS MALE Manufacturer: AMPHENOL SERIE: MIL-C 38999 SERIE III 16/24-PORTS REFERENCE: TV 06 ZN 13-37 PN Cable mark:

Pin	Designation	Color		Notes
31	SHIELD	MM		Ethernet Shield port
20	ETH_1	Orange	White	Port : 1
2	ETH_2	Orange		
5	ETH_3	Green	White	
4	ETH_6	Green		
3	ETH_5	Blue	White	
21	ETH_4	Blue		
19	ETH_7	Brown	White	
1	ETH_8	Brown		
36	SHIELD	MM		Ethernet Shield port
16	ETH_1	Orange	White	Port : 2
28	ETH_2	Orange		
18	ETH_3	Green	White	
30	ETH_6	Green		
29	ETH_5	Blue	White	
17	ETH_4	Blue		
15	ETH_7	Brown	White	
14	ETH_8	Brown		
35	SHIELD	MM		Ethernet Shield port
33	ETH_1	Orange	White	Port : 3
23	ETH_2	Orange		
9	ETH_3	Green	White	
24	ETH_6	Green		
7	ETH_5	Blue	White	
8	ETH_4	Blue		
22	ETH_7	Brown	White	
6	ETH_8	Brown		
32	SHIELD	MM		Ethernet Shield port
11	ETH_1	Orange		Port : 4
34	ETH_2	Orange		
27	ETH_3	Green		
13	ETH_6	Green		
26	ETH_5	Blue		
12	ETH_4	Blue		
25	ETH_7	Brown		
10	ETH_8	Brown		

*Pin 37 Additional Ethernet shield

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