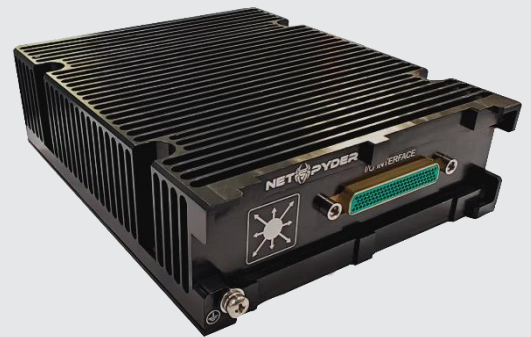


The Netspyder-ND module is a rugged and compact Ethernet switch module that can be used in a variety of applications, including Onboard avionics and Onboard aerospace, defense, industrial automation, etc. The module is based on the EPSM-10GX4 switch module from Diamond Systems, which provides 8 10/100/1000 Mbps copper ports.

FEATURES

- Ethernet Switch Layer 2+ Software Support Includes
 - 8K MAC addresses and 4K VLANs (IEEE 802.1Q)
 - 8K IPv4 and IPv6 multicast group support
 - Jumbo frame support at all speeds
 - Flexible link aggregation support based on Layer-2 through Layer-4 inform Multicast and broadcast storm control, as well as flooding control.
 - Rapid Spanning Tree protocol (RSTP) and MSTP
 - Multi-protocol support: IEEE 802.1d, IEEE 802.1w, IEEE 802.1s and IEEE 802.1x
 - 8 priorities and 8 QoS queues per port with scheduling
- Ethernet Switch Layer 3+ Software Support Includes
 - Hardware and Software based IPv6 L3 static routing.
 - RFC 2328 OSPFv2 dynamic routing
 - IEEE 1588 precision time protocol (PTP) (Build Option)



Technical Specifications

Switch Specifications

Features:

- All the I/O's & Power are routed on 100Pin Micro-D Connector.
- 8 Port Managed L2/L3 (10/100/1000Mbps) Rugged Ethernet switch
- Support Inter VLAN Routing
- Capable of creating multiple VLANs
- Console Port for debugging

Mechanical:

- Dimension in mm (W X H X D): 110X37X135
- Surface finish:
 - * All external aluminum surfaces are hard black anodized as per MIL-A-8625F TYPE III CLASS 2.
- Weight: Less than 500 grams.

Environmental specifications:

- Conduction Cooled Unit
- Operating Temp: -40°C to +85°C.
- Complies to Standards: MIL-STD-461F, MIL-STD- 704 and MIL-STD-810G.

Power Requirements:

- Input Voltage Range: 18 to 32 VDC. Nominal 28VDC (Typical).
- Hold Up capability: 50ms.
- Power Consumption: 10W (max)

Block Diagram

