

# NetSys-5303 EDGE COMPUTER AND CISCO ROUTER

## REMOVABLE STORAGE / GigE PORTS

### DESCRIPTION

The NetSys-5303 brings edge computing capability together with the security and routing capability of Cisco's certified Embedded Services Routing products. Featuring Intel® Core™ i7 processing power, ample Gigabit Ethernet switching ports, high capacity removable Storage plus a rich combination of graphics, serial, SATA and USB I/O in a package designed for extended temperature, high shock & vibration environments, the 5303 is ready to deliver the performance your application needs in the places you need it most.



### Functional Features

- Latest generation Intel® Core™ i7 Processor. Inquire about CPU options.
- Intel high performance HD4600 graphics engine
- Up to 32GB Dual Channel ECC DDR4
- Cisco 5915 Embedded Services Router with IOS and Cisco Mobile Ready Net Capabilities
- Support for mobile adhoc networking (MANET) and radio aware routing (RAR)
- 1 x external Ethernet ports including 2 router ports
- Multiple video and audio options plus ample USB and GPIO ports
- IP67 ingress protection
- Robust removable SATA III storage bay
- Support RAID 0, 1, 5 and 10
- Fanless conductive cooling and circular MIL-DTL-38999 connectors
- Mini PCIe/mSATA expansion for on-board custom I/O configurations
- PCIe/104 expansion with custom I/O panel
- MIL-STD-704F, MIL-STD-1275D compliant

### Benefits

- Provides data, compute, storage, and application services to the network edge for time sensitive processing in mobile and fixed assets
- Reduces service latency, and improves QoS, resulting in superior network performance
- Supports a distributed compute model disbursed over wide geographic areas
- Efficient system design optimized for use in SWaP-C constrained applications

### APPLICATIONS

The NetSys-5303 brings high performance compute capability and secure connectivity to mobile and stationary locations attached equipment deployed in harsh environments encountered in applications such as:

- Complete line of small form factor chassis systems for a wide range of applications and environments
- Standards-based I/O cards for connectivity configuration
- Storage solutions to meet most usage requirements across a range of applications.

### RELATED PRODUCTS



- Drilling and mining operations
- Commercial air and ground transport infrastructure
- Energy distribution
- Mobile ground, ship and air defense equipment
- Homeland security and emergency services

# NetSys-5303 EDGE COMPUTER AND CISCO ROUTER

## REMOVABLE STORAGE / GigE PORTS

### SPECIFICATIONS

#### Environmental Temperature

Operating temperature: -40°C to +71°C
Storage temperature: -40°C to +85°C
Operating shock: 40g, 11ms, 3 pos/neg per axis, 18 terminal peak shock pulses per MIL-STD-810H, Method 516.8, Procedure I
Crash hazard shock: 75g, 11ms, 2 pos/neg per axis, 12 terminal peak shock pulses per MIL-STD-810H, Method 516.8, Procedure V
Random vibration: 10Hz to 2000Hz, 3 axis, 1 hour/axis per MIL-STD-810H, Method 514.8, Procedure I
Humidity: Up to 95% RH @ 40°C, non-condensing per MIL-STD-810H, Method 507.6, Procedure II
Ingress, sand, and dust: No ingress (IP67), MIL-STD-810H, Method 510.7, Procedure I and II
Water immersion: No leakage (IP67), MIL-STD-810H, Method 512.6, Procedure I

#### Physical

Physical Mounting options: Wall or table-mount
Dimensions: 152.4mm H x 162mm W x 162mm D
Excluding connectors (5.9" H x 6.38" W x 6.38" D)
Estimated weight: 8.5lbs (3.9kg)
Cooling: Passive, no fans.

#### I/O Connections

Circular MIL-DTL-38999 connectors with breakout cable options for: 11x external Ethernet ports including:
2x 10/100 router ports, 2x 10/100 switched ports
7x 10/100/1000 switched ports
1 HDMI port
HD audio - Mic, audio in, line in
4 USB 2.0 ports
3 RS232 COM ports
4 RS422 or 4 RS485 COM ports
4 GPI and 4 GPO ports
Optional CANbus support

#### Power

28V input voltage (18 - 36 VDC continuous)
MIL-STD-704F & MIL-STD-1275D compliant
MIL-STD-461F Compliant

### ORDER INFORMATION

Description	Model Number
NetSys 5303 including: 6th Generation Intel Core™ i7-6820EQ 2.8/3.5GHz CPU 32 GB Dual Channel DDR4 at 1867/2133 MHz Dual 128GB 2.5" extended temp SATA III MLC solid state drives Linux OS One year SMARTnet contract providing 24 x 7 access to the Cisco TAC (Technical Assistance Center) as well as major and maintenance level releases of Cisco IOS software Board Conformal Coating option is available using HumiSeal 1A33 in accordance with MIL-I-46058. Contact factory.	DVS53GCOS3111139IX
I/O Cable Kit	NetSys-5303-CBL

© Copyright 2021 by Elma Electronic, Inc. Subject to technical modifications, all data supplied without liability.

#### Please contact our sales team for more details.

China: +86 21 5866 5908	Germany: +49 7231 97 34 0	Singapore: +65 6479 8552	United Kingdom: +44 1234 838 822
France: +33 388 56 72 50	Israel: +972 3 930 50 25	Switzerland: +41 44 933 41 11	United States: +1 510 656 3400