

# BCDSF02S-RSS

## 2-Bay Small Form Factor Rail Server

### 2 BAY 8 PORT POE RAIL SERVER

The BCDSF02S-RSS is certified with CE (Class A) and FCC and is in compliance with E-Mark, ISO 7637-2, EN 50155, EN 50121-3-2 and EN 45545-2, IEC 60945 and DNV 2.4.



This high-performance rail server is powered by the 7th generation Intel® Core™ i5 or i7 processors, along with dual DDR4 SO-DIMM slots for up to 32GB of memory.

The BCDSF02S-RSS has a built-in 10-port managed switch with 8-port 10/100 Mbps PoE and 2-port Gigabit LANs, featuring VLAN, QoS and PoE scheduling for the more secure and smooth network.

For reliable operation in severe environments, the rugged fanless rail server is designed to withstand a wide temperature range from -40°F to +158°F and vibration of up to 3 Grms. It also supports 24V to 110V DC for railway applications.



### KEY FEATURES

-  Up to 4TB HDD, 1TB SSD
-  Intel® Core™ 7th Generation Processor
-  Windows 10 Pro
-  SSD & 24/7 Duty Cycle SATA Drives
-  16GB DDR4 RAM
-  (8) M12 PoE Ports
-  Supports Cell/GPS/Wi-Fi Modules
-  -40°C to +70°C (-40°F to +158°F)
-  EN 50155 Certified
-  3-Year Advanced Replacement Warranty

# BCDSF02S-RSS

## 2-Bay Small Form Factor Rail Server

### SYSTEM

#### Operating System

Windows 10 Pro

#### Memory

Standard Configuration: 16GB (2x 8GB)  
Maximum Configuration: Up to 32GB (2x DDR4 SO-DIMM Slots)

#### Processor(s)

(1) Intel® Core™ 7th Generation Processor (Up to 2 Cores, 4 Threads, 3.90GHz)

#### Processor Passmark

Intel® Core™ i5-7300U: 5,166  
Intel® Core™ i7-7600U: 5,114

#### Networking

(8) D-Coded 10/100 Mbps M12 PoE Ports (Up to 120W PoE Power), (2) A-Coded 1GbE M12 PoE Ports, (1) 1GbE RJ45 Port

#### Expansion Slots

(2) Full-size PCIe Mini Card Slots for USB/SIM

#### I/O Ports

(4) USB 3.0, (1) DB-9/RS-232/422/485, (5) Antenna Openings

#### Video Outputs

(1) DVI-I

### MECHANICAL

#### Form Factor

Small Form Factor

#### Power Supply(s)

(1) Railway M12 Port (24 - 110VDC, 3.5A - 0.7A)

#### Operating Temperature

(Min) -40°F - (Max) 140° F [(Min) -40°C - (Max) 60° C]

#### Operating Humidity

0 ~ 95% (non-condensing)

#### EMC

EN 50155, EN 50121, IEC 62236-3-2 Compliant  
CE/FCC: EN 61000-6-4 Class A, EN 61000-6-2, FCC Part 15 B (Class A)

#### LVD

EN 62368-1

#### Shock Endurance

EN 50155 EN (IEC) 61373 Category 1 Class B, Half-sine pulse, 5g, 30ms (longitudinal direction), 3g, 30ms (vertical/transverse direction) compliant

#### Vibration Endurance

3 Grms with SSD (5 to 500 Hz, X, Y, Z direction; random, operating)  
MIL-STD-810G: Method 514.6C-VL Category 4 Compliant  
EN 50155 EN (IEC) 61373 Category 1 Class B Compliant

#### Switch Features

DHCP Server/Client, Storm Control, Priority Queues (4 per port), Static Trunk, IGMP Snooping v1, v2, v3, Auto-negotiation for Port Speed/Duplex Mode

#### Dimensions (WxDxH)

12.64" x 8.28" x 2.89 (321mm x 210.2mm x 73.3mm)

#### Max. Weight

11.40 lbs. (5.17 kg)

#### IEEE Standards

IEEE 802.1D Spanning Tree Protocol, IEEE 802.1w Rapid Spanning Tree Protocol, IEEE 802.1s Multiple Spanning Tree Protocol, IEEE 802.3x full duplex mode, IEEE 802.1Q, IEEE 802.3ad Link Aggregation Control Protocol, IEEE 802.1ab Link Layer Discovery Protocol, IEEE 802.1x LAN Access Control, IEEE 802.1p CoS, DSCP, WRR

#### Certifications

CE (Class A), LVD and FCC Class A, EN 50155, EN 45545-2, IP30

#### Warranty

3-Year Advanced Replacement

#### Manufacturer

BCDVideo

### STORAGE

#### Hard Drive Bays

(1) mSATA Slot & (2) 9.5mm Drive Bays

#### Hard Drives Supported

SATA

#### RAID Support

Software RAID 0, 1

#### Maximum Storage

Up to 4TB HDD, 1TB SSD