

# Cisco D9804 Multiple Transport Receiver

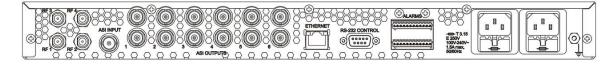
The Cisco® D9804 Multiple Transport Receiver provides a highly efficient solution for satellite-based distribution of Digital Video Broadcasting (DVB) signals to transit sites, including DVB-Terrestial (DVB-T), DVB-Handheld (DVB-H), and DVB-Cable (DVB-C) signals. It is compatible with both Multi-Frequency Network (MFN) and Single Frequency Network (SFN) broadcasts. The D9804 Multiple Transport Receiver receives up to four satellite signals and decombines up to six DVB asynchronous serial interface (DVB-ASI) transport signals from any of the incoming satellite signals. It outputs the content by dual (mirrored) DVB-ASI connections for further distribution into digital networks serving either digital terrestrial networks or other types of consumer redistribution networks.

Figures 1 and 2 show front and back views of the Cisco D9804 Multiple Transport Receiver.

Figure 1. Cisco D9804 Multiple Transport Receiver



Figure 2. Cisco D9804 Multiple Transport Receiver Rear View



#### **Key Features and Benefits**

- Four L-band inputs with active demodulators each capable of:
  - DVB Satellite (DVB-S) quaternary phase shift keying (QPSK) demodulation
  - DVB-S Second Generation (DVB-S2) QPSK and eight phase shift keying (8PSK) demodulation
- DVB-ASI input
- · Fixed-key BISS descrambling
- · Six pairs of DVB-ASI outputs
- Seven contact closures triggered by programmable alarm conditions
- · Dual redundant power supplies
- · Field upgradeable software and security
- · Front panel LCD for control and monitoring

- Tuning preset configurations
- In-Band Control Computer (IBCC) system support for control of elements such as tuning parameters, ASI output selection, and addressing and grouping of individual or groups of D9804 receivers

## **Product Specifications**

Table 1 lists product specifications.

 Table 1.
 Specifications: Cisco D9804 Multiple Transport Receiver

| Specification Category      | Specification   |  |
|-----------------------------|---|--|
| Physical and Power          |   |  |
| Physical specifications     | <ul> <li>Height: 1.72 in. (4.37 cm)</li> <li>Width: 17.25 in. (43.80 cm)</li> <li>Depth: 15.75 in. (40.00 cm)</li> <li>Weight: approximately 10 lb (4.5 kg)</li> </ul>  |  |
| Electrical specifications   | <ul> <li>Dual power supplies</li> <li>Voltage range: 100V to 240V AC</li> <li>Line frequency: 50/60 Hz</li> <li>Power consumption: 107W maximum</li> <li>LNB power on RF1 to RF 3: +13V to +18V at 350 mA maximum</li> <li>Note: No power is supplied to RF 4</li> </ul>  |  |
| Environmental               |   |  |
| Operating temperature       | 32°to 122°F (0°to 50℃)  |  |
| Storage temperature         | -4°to 158°F (-20°to 70°C)   |  |
| Relative operating humidity | Based on the humidity limitations of the Sharp tuner, the D9804 is expected to meet the following humidity specifications (without condensation):  • 95% humidity is valid up to 40°C  • 91% humidity is valid up to 45°C  • 70% humidity is valid up to 50°C  These specifications are based on test results from the Tuner module vendor. |  |
| Relative storage humidity   | 5 to 95% non-condensing Note: Not to exceed 0.024 kg water or dry air   |  |
| Operating altitude          | -61 to 3048m (up to 2000m conforms to IEC/EN/UL/CSA 60950-1 requirements)   |  |
| System                      |   |  |
| ETSI standards              | EN 300 421 DVB; framing structure, channel coding, and modulation for 11/12 GHz satellite services  |  |

| Specification Category | Specification   |
|------------------------|---|
|                        | EN 300 468 DVB; specification for Service Information (SI) in DVB systems   |
| Satellite reception    | <ul> <li>Number of RF inputs: 4 (any and all could be active at a time)</li> <li>Input level: -25 dBm to -65 dBm per carrier</li> <li>Frequency range: 950 MHz to 2150 MHz</li> <li>Demodulation: DVB-S QPSK, DVB-S2 QPSK and 8PSK</li> <li>Symbol rate range:     DVB-S: 1.0 to 45 MSymbols/s     DVB-S2: 1.0 to 31 MSymbols/s </li> <li>Carrier capture range:     ≥ ±3.0 MHz (1-10 Msym)     ≥ ±5.0 MHz (10-30 Msym)</li> <li>Satellites: C-band and Ku-band</li> <li>Input impedance: 75 Ω</li> </ul> |
| DVB ASI inputs         | <ul> <li>MPEG-2 transport input</li> <li>EN50083-9, DVB-ASI coaxial, 188- to 204-B packets</li> </ul>   |
| DVB ASI outputs        | MPEG-2 transport output     EN 50083-9, DVB-ASI coaxial, 188-B packets  |
| Conditional access     | BISS Mode 1   |
| Control and monitoring | RJ-45, 10/100Base T Ethernet interface  |

## **Ordering Information**

Table 2 lists ordering information.

 Table 2.
 Ordering Information: Cisco D9804 Multiple Transport Receiver

| Description                                      | Part Number     |  |  |
|--|-----------------|--|--|
| Hardware   |                 |  |  |
| D9804 Multiple Transport Receiver Chassis        | D9804-MTR       |  |  |
| D9804 Multiple Transport Receiver Chassis, Spare | D9804-MTR=      |  |  |
| AC Power Cords                                   |                 |  |  |
| Argentina  | CAB-PWR-DMN-ARG |  |  |
| China  | CAB-PWR-DMN-CHN |  |  |
| Australia  | CAB-PWR-DMN-AUS |  |  |
| Europe   | CAB-PWR-DMN-EU  |  |  |
| United Kingdom                                   | CAB-PWR-DMN-UK  |  |  |
| United States                                    | CAB-PWR-DMN-US  |  |  |
| Italy  | CAB-PWR-DMN-IT  |  |  |
| Japan  | CAB-PWR-DMN-JPN |  |  |
| Brazil   | CAB-PWR-DMN-BRA |  |  |
| India  | CAB-PWR-DMN-IND |  |  |

## Service and Support

Using the Cisco Lifecycle Services approach, Cisco and its partners provide a broad portfolio of end-to-end services and support that can help increase your network's business value and return on investment. This

<sup>&</sup>lt;sup>1</sup> For DVB-S2 symbol rates below 10 MSymbols per second, contact your Cisco sales representative to evaluate your specific application prior to order placement.

approach defines the minimum set of activities needed by technology and by network complexity to help you successfully deploy and operate Cisco technologies and optimize their performance throughout the lifecycle of your network.

#### For More Information

To learn more about this product, contact your local account representative.

To subscribe to receive end-of-life and end-of-sale information, go to <a href="http://www.cisco.com/cisco/support/notifications.html">http://www.cisco.com/cisco/support/notifications.html</a>.



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Printed in USA C78-727756-00 05/13