Branch Router BRTR-10

सी-डॉट
C-DOT

Product Features and Specifications

The customer edge router plays a very important role in providing the IT security of any organisation. Currently, off-the-shelf edge routers installed in Indian telecom and data network poses a serious security threat to the customer's network, as some of them are designed and developed by unreliable sources.

To address these challenges, C-DOT has designed BRTR-10 Branch Router, which can address all the requirements of a customer edge IP network. As against routers available off-the-shelf, C-DOT's routing systems are developed bottom up, using indigenous trusted resources. They are assured to be free of any Malware, Trap Doors, Trojans or other forms of embedded intentional or unintentional sniffing/interception software. C-DOT continues to enhance security aspects of its technologies, making them safe for use in strategic applications.

C-DOT Branch Router (BRTR-10) is a high performance customer edge router, which can provide a throughput upto 10Gbps. It has a built-in support for security features like, Network Address Translation (NAT), IPSec and Access Control List (ACL). It also supports ESTI GS QKD 014 standard for fetching Cryptographic keys for IPSec communication.

C-DOT BRTR-10 is a high performance customer edge router which can address the requirements of small offices and business units, typically having different types of LAN/WAN interfaces to delivers integrated switching and routing features. It is packaged in a compact size (1U, 19" rack compatible), with a wide variety of interfaces, thus simplifying and consolidating the different networking requirements of the user.

It has an option of dual redundant power supply. The system engineering has been done in such a way that the forced cooling is not needed. So, maintenance of the system becomes simpler over a very long period of time

It is based on a versatile hardware designed to support various kind of features and protocols required in an IP network. On the WAN side, the router provides support for E1 EoPDH using GFP-F Encapsulation as per ITU-T G.7041 , as well as Gigabit Ethernet electrical/optical interfaces. The system also has two USB ports, which can be used for various purposes. On the LAN side, it provides the support for Fast Ethernet interfaces/Gigabit Ethernet interfaces. It supports various Layer 2 features e.g. VLAN, etc. It also supports jumbo frames.

The modular OS supports a wide range of routing protocols such as OSPF, RIP, BGP, ISIS and Management features along with built-in security features (NAT, IPSec, ACL) to protect the network and device access. The Router also supports SNMP-v1, v2, v3 protocol and can also be managed through an EMS/NMS.

- **Network Interfaces**
  - ✓ 08 x 1G Ethernet (Electrical)
  - ✓ 02 x 1G Ethernet over Optical Fiber (SFP)
  - ✓ 02 x Fast Ethernet
  - ✓ 02 x E1 (EoPDH)
- **System Interfaces**
  - ✓ 01 x Console port with RS-232
  - ✓ 02 x USB Type A
- **Protocols supported**
  - ✓ IPv4
  - ✓ IPv6
- **Routing Protocols**
  - ✓ Static
  - ✓ OSPF
  - ✓ RIP
  - ✓ BGP
  - ✓ ISIS

- **Security Features**
  - ✓ NAT
  - ✓ ACL
  - ✓ IPSec (AES/DES/3DES)
  - ✓ SSH v2
  - ✓ ESTI GS QKD 014
- **Management**
  - ✓ In-band management
  - ✓ SNMP-v1,v2,v3
  - ✓ CLI
- **Power Supply**
  - ✓ 220V AC
  - ✓ Option for built-in redundant power supply.
- **Dimensions**
  - ✓ 1U x Standard 19-inch rack mountable.

About C-DOT

Centre for Development of Telematics (C-DOT), a premier Telecom Technology Development Centre of Government of India was founded in August 1984 to meet technology needs of the country. It has state of the art CMMI Level 5 certified research centres at Delhi & Bangalore.

C-DOT, India's premier telecommunications R&D centre, has been a pioneer and a nation builder. Committed to provide a wide range of indigenously developed, cost-effective, state-of-the-art total telecom solutions, it has come a long way since its inception. Starting from the mission of providing dial tone to Indian masses, C-DOT has developed solutions in practically all areas of Telecom viz. Switching, Transmission, Optical, Wireless, Satellite communications, Next Generation Network, Voice Over IP Solutions and Telecom Software Solutions.