Encrypted Link Bonder & Ai Based Load Balancer

7G *Fuse*

DC70-20G-Ethernet

20 Gbps

16 x 1 Gbps Ethernet Ports

4 x 10 Gbps Fiber Ports

16 WAN & 2 USB CELLULAR WAN
~20 Gbps Throughput

LAN
4X 2 Gigabit LAN
2 SFP+ Fiber LAN

WAN
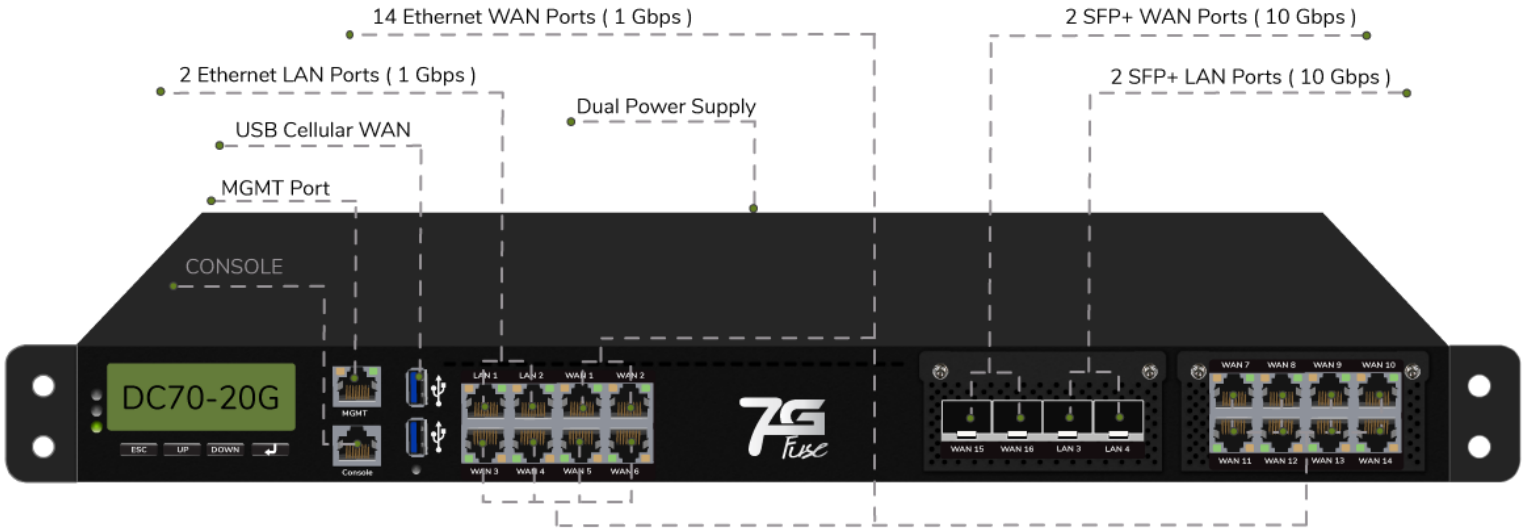**16X** 14 Gigabit WAN
2 SFP+ Fiber WAN

USB
2X Cellular WAN

VPN BONDING
AES-256 ENCRYPTION
LEASED LINE | MPLS | ADSL
THROUGHPUT UPTO ~10 Gbps

AI BASED
LOAD BALANCER

LOAD BALANCING
INTERNET THROUGHPUT UP TO ~20 Gbps

DC70

7G *Fuse*

14 Ethernet WAN Ports (1 Gbps)

2 Ethernet LAN Ports (1 Gbps)

2 SFP+ WAN Ports (10 Gbps)

2 SFP+ LAN Ports (10 Gbps)

USB Cellular WAN

Dual Power Supply

MGMT Port

CONSOLE

DC70-20G

ESC   UP   DOWN

MGMT

Console

LAN 1   LAN 2   WAN 1   WAN 2

WAN 3   WAN 4   WAN 5   WAN 6

WAN 15   WAN 16   LAN 3   LAN 4

WAN 7   WAN 8   WAN 9   WAN 10

WAN 11   WAN 12   WAN 13   WAN 14

7G *Fuse*

QOS
TRAFFIC SHAPING

HIGH AVAILABILITY

MULTIPLE
DYNAMIC DNS

REAL TIME
MONITORING

FIREWALL
LAYER-3 STATEFUL

REDUNDANT
POWER SUPPLY

MULTICASTING
OPTIMIZED VIDEO TRAFFIC

REPORTS
BANDWIDTH USAGE &
DATA CONSUMPTION

CENTRAL MANAGEMENT
SYSTEM INTEGRATION

DC70

16 WAN & 2 USB CELLULAR WAN
~20 Gbps Throughput

7G Fuse

SPECIFICATIONS

LAN INTERFACE	2 x Gigabit Ethernet Port 2 x 10G SFP+ Port
WAN INTERFACE	14 x Gigabit Ethernet Port 2 x 10G SFP+ Port 2 x USB 3.0 Ports for Cellular Dongles Connectivity
MANAGEMENT INTERFACE	1 x Gigabit Ethernet Port
CONSOLE PORT	RJ 45 (RS-232 Pinout)
INTERNET LOAD BALANCING THROUGHPUT	~20 Gbps
SESSIONS	3 Million+ Concurrent Sessions
USB	2 x USB 3.0 Ports for Cellular Dongles
DESIGN	1U Rack-Mountable Unit with Rackmount Kit
DIMENSIONS	44 x 53 x 4.5 cm | 17.3 x 20.8 x 1.7 inches (W x L x H)
WEIGHT	~10 kg
POWER	300 Watts 1+1 Redundant PSU — INPUT: AC 90V~264V
OPERATING TEMPERATURE	~ -10 to 50 °C
CERTIFICATIONS	CE / FCC Certified

PACKAGE CONTENTS

- 1 x DC70-20G-Ethernet
- 2 x Power Cord
- 1 x Rack Mount Kit (L Clamp Set and Screws) | 1 x Rack Mount Kit (Rail Kit Set and Screws)
- 1 x DAC Cable

TECHNOLOGY

DYNAMIC LOAD BALANCING

An intelligent load-balancing technology responsible for performing real-time health checks on all Internet connections and routing traffic (per packet) via assigned priorities using the following dynamic load-balancing algorithms.

Latency Based Load Balancing Algorithm

In this mode, the load balancer assigns a higher priority to the interfaces with the lowest latency.
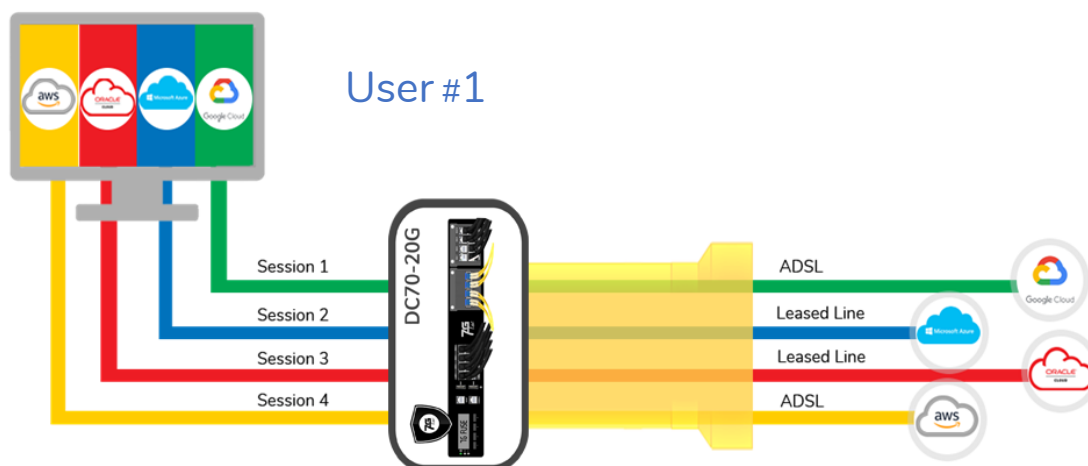
Bandwidth Based Load Balancing Algorithm

In this mode, the load balancer assigns priorities based on bandwidth. There are 2 configurable modes for this.

Most Bandwidth: The interface with the highest bandwidth is assigned a higher priority.

OR

Least Bandwidth: The interface with the lowest bandwidth is assigned a higher priority.

VPN BONDING

It establishes an encrypted VPN tunnel between its peer devices and ensures that all WAN connections participate in the data transfer between the sites and combine all Internet connections into a single encrypted virtual tunnel.

As a result, VPN Bonding increases the overall bandwidth throughput of the VPN tunnel and minimizes the impact of tunnel congestion for higher data transfer between sites. It also reduces downtime by a factor of three.

Along with VPN bonding, it also provides multiple traffic scheduling algorithms to meet different scenarios and requirements. The sole purpose of the traffic scheduling algorithm is to decide in which order the data packets should be transmitted.

DC70

FEATURES

Real-time Dashboard

Single pane for monitoring the entire device. The dashboard shows the committed Internet throughput as well as the bandwidth and data consumption of the individual Internet connections in real time.

Real-time Charts

Graphical representation of link utilization using diagrams (line and bar charts). Aggregated and individual upload and download bandwidth of the interfaces, the number of sessions created over time.

Reports

Enables the user to retrieve interactive reports on Bandwidth, Data Consumption, Power Consumption and Session Counts over the specified date range at both an aggregated and individual levels via the selected interface.
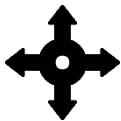
Traffic Shaping

Increases the efficiency of overall Internet usage by setting up traffic shaping policies that help users categorize and prioritize specific traffic. It also helps in limiting bandwidth for specific protocols, IP or subnets to avoid Internet exhaustion or congestion.

Built-In Firewall

Segregates interfaces into zones and filters Internet traffic passing through the device using a stateful Layer 3 firewall (subnet, IP and ports) for Internet security and threat prevention.

High Availability

Enables the user to configure 7G Fuse devices in Active Standby mode to provide redundancy in DC70 devices. This reduces the downtime of internet connectivity even if a single device fails.

DC70

7G Fuse

FEATURES

Multiple Dynamic DNS

Provides a networked device with the ability to notify a global DNS server to change the dynamic Public IP address assigned to a DNS record in real time.

User Management

Enables privileges to be assigned to users based on their role/designation in the organization, which restricts unauthorized changes to key configurations.

VPN Bonding Test

Special and customized tool for checking the actual bandwidth achieved by VPN Bonding.

Once the VPN is established, the user can initiate the bonding test between the peers to analyse the real-time bandwidth over the VPN.
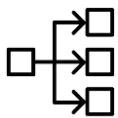
Intelligent Load Balancer

Fuse Intelligent Load Balancer is highly dynamic, and adapts with the changes in Latency and/or Bandwidth, selecting the best interface (for data transfer), based on the interface metrics, with different modes for different types of interfaces.

Dual Power Supply

Dual supply feature in Ethernet/fiber devices ensures uninterrupted operation by utilizing two power sources for enhanced reliability and redundancy

Site-to-Multisite VPN

Site-to-Multisite VPN feature enables secure connectivity between individual sites and multiple locations, streamlining network communication and data exchange for organizations with distributed infrastructures.