MOTOTRBO™ Capacity Max System Server

Digital trunking system

MOTOTRBO Capacity Max blends real-world experience with technological innovation to deliver a scalable communications solution that's tailor-made for your organisation. At the heart of the system is the Capacity Max System Server (CMSS). This centralised appliance hosts the Trunking Controller (TC), Voice and Radio Command (VRC) gateway, System Advisor (SA) management application and Enhanced Software Update (ESU) CMSS maintenance application. All this software runs on a single server and the central system database is programmed through the Radio Management (RM) application, simplifying configuration.

Secure

Capacity Max is a highly secure system. It offers traffic encryption and subscriber authentication, plus Subscriber Access Control (SAC) to define the services available to each user. The CMSS itself is a locked-down appliance, only configurable via the Radio Management application. It is inaccessible to malicious software and intrusion.

Reliable

The CMSS platform is a mature, reliable, enterprise-grade server with millions of hours of service in the field. It is configured with dual power supplies and RAID disk arrays for additional resiliency. It ships with a multi-year warranty as standard. Additional CMSS's can be deployed for physical and geographical redundancy.

Scalable

The CMSS is highly scalable: even the largest multi-site Capacity Max system can be supported on a single server. For control room applications requiring voice connections, a CMSS can route up to 100 external talkpaths and extra CMSS servers can be provisioned as necessary. Capacity Max is scalable up to 750 sites, with up to 15 voice and data repeaters and up to 6 additional data-only repeaters per site.

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SPECIFICATIONS

PHYSICAL CHARACTERISTICS

Model	HPE ProLiant DL20 Gen 10 Plus
Network connectivity	6x 1Gb plus 2x 10Gb Ethernet NIC port (rear)
Serial connections	4x external USB 3.2 Gen1 (front: 1xUSB 3.2 & 1xUSB 2.0 iLO service port; rear: 2xUSB 3.2) 1x internal USB 3.2
AC input power	100 - 240 Vrms, 50 - 60 Hz, 557 - 537 W
Nominal input current	5.6 A (100 Vrms), 2.3 A (200 Vrms)
Mounting	1U 19" rackmount short-depth chassis
Dimensions (h x w x d)	4.32 x 43.46 x 38.22 cm (1.70 x 17.11 x 15.05 in)
Weight	10 kg (22.05 lb)
Operating temperature	10 to 35 °C (50 to 95 °F) at sea level with an altitude derating of 1.0 °C for every 305 m (1.8 °F for every 1000 ft) above sea level to a maximum of 3050 m (10000 ft).
Storage temperature	-30 to 60 °C (-22 to 140 °F). Maximum rate of change is 20 °C / hr (36 °F / hr)
Operating relative humidity	8% to 90% - Relative humidity (Rh), 28°C maximum wet bulb temperature, non-condensing
Non-operating relative humidity	5% to 95% relative humidity (Rh), 38.7°C (101.7°F) maximum wet bulb temperature, non-condensing
Operating altitude	Max. 3050 m (10,000 ft). This value is also limited by options installed. Maximum allowable altitude change rate is 457 m/min (1500 ft/min)
Non-operating altitude	Max. 9,144 m (30,000 ft). Maximum allowable altitude change rate is 457 m / min (1500 ft / min)
Standard warranty	2 years

Front view

Rear view

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