

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 a RAID disk array, hot-swappable dual redundant power supplies and redundant network connections 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.

SPECIFICATIONS

PHYSICAL CHARACTERISTICS

Model	Dell PowerEdge R660xs
Network connectivity	10x 1 Gb port (rear)
Serial connections	2x external USB ports (rear: 1xUSB 2.0, 1xUSB 3.0)
Power supply	Hot-swappable dual redundant power supplies
AC input power	100-240 Vac, 1100 W
Input current drain	12 A - 6.3 A
Mounting	1U 19" rackmount chassis supplied with rack extenders
Dimensions (h x w x d)	4.28 x 48.2 x 71.3 cm (1.68 x 18.97 x 28.05 in)
Weight	19.45 kg (55.33 lb)
Operational temperature for altitudes ≤ 900 m (≤ 2953 ft)	10 to 35 °C (50 to 95 °F) with no direct sunlight on the equipment. Maximum temperature is reduced by 1 °C / 300 m (1.8 °F / 984 ft) above 900 m (2953 ft)
Storage temperature	-40 to 65 °C (-104 to 149 °F)
Maximum temperature gradient (operating and storage)	20 °C (36 °F) in an hour and 5 °C (9 °F) in 15 minutes (not instantaneous rates of temperature change)
Operating humidity (non-condensing at all times)	8% RH with -12 °C (10.4 °F) minimum dew point to 80% RH with 21 °C (69.8 °F) maximum dew point
Non-operational humidity limits	5% to 95% RH with 27 °C (80.6 °F) maximum dew point
Operational altitude	Max. 3048 m (10000 ft)
Non-operational altitude	Max. 12000 m (39370 ft)
Standard warranty	2 years



Front view



Rear view

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