

**The Hashemite Kingdom of Jordan
Civil Aviation Regulatory Commission**



Technical Support Directorate

Radar Maintenance Division

Network switch specifications

Introduction:

The Civil Aviation Regulatory Commission (CARC) intends to procure Ten (10) network switches with 48 ports for each switch.

The 48 port Switch shall deliver quad-speed performance— 10/100/1000 and 10-Gigabit— with plug-and-play Gigabit-to-the-desktop switching and rich, easy-to-use features. This switch shall provide premium switching performance, security, and clustering/stackable scalability with single IP address management; The Switch shall feature 48 auto-negotiating 10/100/1000 ports configured as auto-MDI/MDIX, four dual-personality 10/100/1000 or SFP Gigabit ports, and one 10-Gigabit slot.

Minimum specifications:

- IEEE 802.1X network access control offers standards-based security combined with RADIUS authentication.
- RADIUS Authenticated Device Access (RADA) to provide authentication of attached devices via MAC address for an additional level of endpoint security.
- Access Control Lists (ACLs) enable usage policies at each point of access to the network via the switch.
- Integrated stack management with single IP management of up to sixteen units.
- Bandwidth rate limiting and protocol filtering enforces controls on each port.
- "Dual-personality" Gigabit Ethernet, with choice of copper or fiber media for flexible uplinks.
- Support for 100MB dual-mode SFPs for legacy 100BASE-FX installations
- Multicast filtering and Rapid Spanning Tree protocol to improve QoS, scalability and network availability.
- Layer three static routing to give additional flexibility in deployment to boost network performance.
- Secure management with authentication and encryption of management traffic via Secure Shell (SSH v2) and SNMP v3.
- Quantity: 10 switches with 48 ports for each switch.
- Three- years warranty for is required.
- Two free preventive maintenance checks annually during the warranty period.