

# IAS CCESR-Smart Switch

The IAS CCESR-Smart Switch is a small form factor, semi-rugged 28 port Gigabit Ethernet Managed Switch that offers 802.3af and 802.3at compliant Power over Ethernet (PoE). Based on the Cisco SG350 Series Managed Switch, an ideal, easy to use, tactical edge of the network IP switching appliance, the CCESR-Smart Switch offers support for Layer 2 and 3 features, advanced IP networking security, routing, while maintaining low energy consumption.

The IAS CCESR-Smart Switch offers powerful capabilities that include advanced management, IP security features, Quality of Service (QoS), static routing, advanced threat defense, time-based access control lists, 802.1x and more. Its intuitive, browser-based user interface is user-friendly, with a simple mode, a configuration wizard for common configurations, and advanced well understood Cisco CLI management options. Additionally, the IAS CCESR-Smart Switch offers IPv6/IPv4, SFP fiber interfaces for up linking or downlinking to additional switches, as well as up to 200 watts of PoE.



Designed for use in tactical edge networks, IAS's CCESR-Smart Switch offers users support for 9~36volts of dirty DC power and can be used with the IAS UPS-500 Li-Ion battery based Uninterruptable Power Supply. In support of users who need to bring greater secure/non secure port density to the tactical environment, the IAS CCESR Smart Switch also pairs well with the IAS CCESR-2C or IAS STEW appliances (which are the same form factor).

Visit [www.IASpecialists.com](http://www.IASpecialists.com) or contact us at 202-640-2623 for additional information.

## IAS CCESR-SmartSwitch

- 2.0" Tall x 10.8" Tall x 8.25" Deep
  - The same size as the IAS STEW and CCESR-2C
- Semi-rugged design
- Approx. 5 Lbs
- 9-36 wide range VDC input
- Locking power connector
- 100~240 VAC 50/60Hz PSU included
- Operating Temp 0°C to 45°C
- All interfaces on a single face
- Familiar to use Cisco CLI
- Easy to configure Graphical User Interface (GUI)
- 28 RJ-45 Gigabit Ethernet (2 SFP and 2 Mini-GBIC)
- 195 Watts/24 ports of PoE, 802.3af and 802.3at compliant
- Supports IPv4 and IPv6
- 56 Gigabits per second switching capacity
- Hard mounting points for IAS adapter plates

## Features

<b>Switching capacity, forwarding rate</b>	41.67 million packets per second
<b>Forwarding rate</b>	56.0 Gbps
<b>Connectivity</b>	28 Ports (up to 24 GbE, 2 GbE or SFP) 1 USB for file management
<b>Port protection and performance features</b>	Unidirectional Link Detection prevents forwarding loops, blackholing of traffic in switched networks Head-of-line blocking Jumbo frames up to 9216 bytes
<b>Management</b>	SSH v2, SCP, HTTPS-based web management
<b>Services</b>	Ping, traceroute, SNTP, TFTP, SNMP, RADIUS, syslog. RMON Clients for DNS, telnet, DHCP

## Protocol Support

<b>Spanning Tree Protocol</b>	802.1d, fast convergence with 802.1w, MSTP with 802.1s
<b>Port grouping</b>	IEEE 802.3ad Link Aggregation Control Protocol (LACP) Up to 8 groups, 8 ports per group with 16 candidate ports for each 802.3ad link aggregation
<b>VLANs</b>	Support for up to 4096 VLANs simultaneously. Port-based and 802.1Q tag-based VLANs. MAC-based, Management, Guest, Unauthenticated, CPE, Q-in-Q VLANs Private VLAN Edge (PVE), also known as protected ports, with multiple uplinks. Dynamic VLAN assignment via RADIUS server along with 802.1x client authentication GVRP, GARP
<b>QoS</b>	8 hardware QoS queues. WRR, assignment based on DSCP and CoS. Ingress policer; egress shaping and rate control Automatic assignment of voice traffic to VLANs. Zero-touch deployment of voice endpoints and call control devices, Multicast TV VLAN (MVR)
<b>IPv4 support</b>	Wirespeed routing of packets. 512 static routes, 128 interfaces CIDR; Layer 3 interface atop physical port, LAG, VLAN, loopback DHCP relaying across IP domains; DHCP server with multiple pools
<b>IPv6 support</b>	IPv6 over Ethernet, host mode, dual stack; neighbor and router discovery. SLAAC, PMTUD, DAD, ICMPv6, IPv6 over IPv4 with ISATAP MLD snooping
<b>Other support</b>	Layer 2 DHCP relay, option 82 support IGMP v1 to 3 snooping; IGMP querier
<b>Security</b>	Time-based 802.1X RADIUS support STP Bridge Protocol Data Unit Guard, Root Guard DHCP snooping, IP source guard, dynamic ARP inspection Management traffic prioritization, Layer 2 isolation (PVE), port security, DoS prevention, ACLs