- Two models available. Six10/100 RJ45 ports and two *OR* four 10/100 ports and two 100Mb fiber ports.

- Models available with four PoE+ ports

- Extended Operating Temperature from -40° to 85° C

- Ruggedized, compact design

- Supports all DC & AC power ranges including 12, 24, and 48 VDC as well as 110/220 AC.

The industrially hardened RhinoSwitch™ RSU-600 and RSUP-600 offer Fast Ethernet RJ45 and Fiber ports in a rugged, and very compact design that is ideal for edge of the network locations. The RSU-600 offers six 10/100 RJ45 copper ports, and the RSU-600F offers four 10/100 RJ45 copper ports and two 100Mb fiber ports to enable a long-distance upstream link.

RSU*P* Models offer four PoE+ ports in the same chassis and footprint as the non-PoE RN models. PoE Switches are particularly valuable when they are installed in edge of the network locations where it is difficult, impossible, or just very costly to install new electrical cabling. These areas are where the RSUP-600 and RSUP-600F are particary valuable by a.) eliminating the need for the electrical wiring and b.) providing ruggedized switching in uncontrolled environments. The RSUP Switches are purpose built for the most demanding environments such as power utility substations, outdoor traffic control boxes and video surveillance structures. The RSU-600F provides four 10/100 PoE or PoE+ ports and two 100Mb fiber ports while the RSUP-600 offer four 10/100 PoE or PoE+ ports and two non-PoE 10/100 ports. The RSUP switches are ideal for PoE-enabled physical security entry and access points and critical infrastructure facilities.via linking to PoE-enabled video cameras and access control systems.

RSU models offer one of the smallest footprints for such a ruggedized product. The units have been designed with advanced thermal properties to operate in temperatures from -40˚C to 85˚C and use convection cooling to help insure longer life and to provide resistance against dirt, dust, and other contaminants. These attributes make the RSU switches ideal in industrial and utility settings where uptime is critical. Additionally, the products ability to perform in extreme temperatures makes them very well suited for outdoor locations especially inside enclosures where temperatures are the most extreme.

The RSU and RSUP edge switches may be DIN-Rail mounted, and are available with AC or DC power including 12, 24, 48 DC as well as 110/220 AC. All of the edge switches are backed by the widest breadth of certifications in the industry including UL, CE, IEC61850, IEEE 1613, NEMA TS-2, as well as EMC FCC part 15, ICES-003, EN 55022, EN55024, EN50155, and EN61000 just to name a few.

DELTA SURGE™
Real Robust Industrial Networking

Specifications

RSU-600/RSUP-600 Edge Switches - General

• Operation: Store and forward wire speed switching, non-blocking

• Modes: Full or half duplex operation with flow control supported on all ports

• Switching bandwidth: 1.2 Gbps

• Latency (100M typical): 5 µs plus frame time

• Packet Buffer: 384Kb

• Ethernet isolation: 1500 Vrms 1 minute

• 2K MAC addresses

RJ45 Copper Ports

• RJ45 ports: Four (RSU-600F) or six (RSU-600) RJ45 ports that are fully IEEE 802.3 compliant

(Optional: Models RSUP-600 & RSUP-600F: Four RJ45 PoE+ ports (802.3at)

• RJ45 speed & duplex: 10/100 auto-detecting for speed & duplex (full or half)

• RJ45 MDI/MDIX: Auto-mdi/mdix-crossover automatically supports either straight or crossed cables

Fiber Port Connectors

• Two 100Mb fiber ports on RSU-600F and RSUP-600F models may be SFF slots for SFP's or fiber ST, SC or LC type fiber port connectors. 2km multi-mode and 10km single mode are available.

Power Input Options

• Power input: Dual redundant power inputs for single power supplies

• External AC: Input: 85-265 VAC; 47-63Hz, auto-ranging

• DC: Input voltage range (12 or 24V)DC: 9-36VDC

• DC: Input voltage range (48VDC): 36-75VDC

RSUP switches: Input voltage range--PoE+: 52-57VDC

　　　　　　　　Input voltage range--PoE: 46-57VDC

• Power consumption: Typical with all ports linked and active

　　　o 6 W RSU-600)

　　　o 8 W (RSU-600F)

Environmental

• Operating temperature (all models): -40°C to 85°C continuously (guaranteed cold (-40°C) and hot (85°C) starts)

• Storage temperature--all models**:** -55°C to 125°C

• Humidity: 5 to 95% RH (non-condensing)

• MTBF: > 219,000 hours

Optional Conformal Coating available on request

Standards and Compliance

• Safety: UL/CSA/EN/IEC 60950-1, 2nd Edition CB report

• Emissions: EN/ETSI 300-386; FCC Part 15

• EN55022,24; AN/NZ CISPR22, VCCI, EN61000-6-4 Class A

• CFR 47-FCC part 15, ICES 003, Class A

• Hazardous Locations: UL/cUL Class 1 Div 2; ATEX Zone 2

• IEC 61850 EMC & Environmental Operating Conditions Class C for Power Utility substations (KEMA)

• IEEE 1613 Class 2 Environmental Standard for Power Utility Substations

• NEMA TS-2 & TEES for DC- and PoE-powered traffic control equipment

• Military: MIL-STD-810G

• Marine: DNV

• Mining: Directive 2006/31/EC

• Telecom: NEBS, GR63 & GR1089, L3; ETSI 300 386

• Railways: EN50155 and EN50121-4 Compliant

• Vibration: IEC 60068-2-6

• Shock: IEC 60068-2-27

• Freefall: IEC 60068-2-32

• RoHS (Pb free) and WEEE compliant

Immunity:

• EN61000-4-2 (ESD) Level 4; EN61000-4-3 (RFI) Level 4 EN61000-4-4 (EFT) Level 4; EN61000-4-5 (Surge) Level 4

• EN61000-4-6 (C. Susceptibility) Level 3

• EN61000-4-8 (PF Magnetic Field) Level 4

• EN61000-4-10 (Damp Osc.) Level 4

• EN61000-4-11 (VDI) Class 3

• EN61000-4-12 (Osc. Wave Im.) Level 3

• EN61000-4-16 (I.C. CMD) Level 3

• EN61000-4-29 VDSI on DC Input

• EN61000-6-2; EN61000-6-5 DT&T-NL, Immunity PS&SS

Mechanical

• Case: Ready to be DIN rail or panel mounted

• Material: Corrosion-resistant aluminum with powder coating

• DIN rail mounting or direct to panel (via separate spring-loaded Din-Rail bracket or panel mounting ears for corner) (see rear DIN-Rail bracket on left)

• **Dimensions:** Height: 3.6 in (9.1 cm); Depth: 3.2 in (8.1 cm); Depth w/din-rail brkt: 3.6 in (9.1 cm); Width: 1.75 in (4.4 cm)

• Weight: 1 lb. (0.45 kg)

IP Rating: Standard: IP40; Extended: IP52

Warranty: 5 years　　　　　　　Made in the USA