

RhinoSwitch[®] REC21 Media Converter

The RhinoSwitch[®] REC21 Ethernet Media Converters are switches that are ideal for edge of network locations. They are built for harsh environments, such as power utility substations, industrial factory floor applications, outdoor traffic control boxes, and video surveillance structures. The RE Media Converters have models that are highly suitable for environments with extreme temperatures and challenges, such as EMC, shock, and vibration.



- Combination of Media Converter and Ethernet Switch.
- Available in 100Mb.
- Two 10/100 RJ45 copper ports and one 100Mb fiber port (ST, SC, and LC)
- Ruggedized with compact design having extended operating temperatures of -40° to +85°C.

Туре	REC21
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:
	REC21: 600 Mbps
	Packet Buffer: 64KB
	■ 1024 MAC addresses
RJ45 Copper Ports	RJ45 ports: IEEE 802.3 compliant
	■ REC21:
	RJ45 speed & duplex: Configurable or 10/100 auto-detecting for speed & duplex (full
	or half)
	RJ45 MDI/MDIX: Auto-MDI/MDIX-Crossover automatically supports either straight or crossed
	cables
	■ RJ45 polarity: Auto-polarity for automatic correction of crossed TXD and RXD pairs
Fiber Port Connectors	REC21: One 100Mb fiber LC port; port may be one of three fiber connector types: ST, SC, or
	LC. 2km multi-mode and 10km single mode fiber port models are available.
Power Input Options	AC: External AC-DC power adapter; Power input DC jack (8 to 15v) 2.5mm, center positive, with

Product Specifications:-



	6 ft DC power cord AC: Input: 100-125Vac at 60 Hz, 215-240Vac at 50 Hz
	DC Power input: Dual redundant power inputs
	DC: Input voltage range (12, 24/28, 48V) DC: 9-60VDC
	Power consumption: Typical with all ports linked and active
	3 W (REC21)
Environmental	Operating temperature for all models: -40°C to +85°C continuously (guaranteed cold (-40°C) and
	hot (+85°C) starts)
	■ Storage temperature for all models: -55°C to +125°C
	Humidity: 5 to 95% RH (non-condensing)
	Altitude: 19,000 ft. (6,000m)
	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
	EN55032,24; 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 2006/21/EC
	Telecom: NEBS, GR63 & GR1089, L3; ETSI 300 386, EN 301 489
	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: Fully enclosed, metallic case
	Material: Corrosion-resistant aluminum with powder coating
	Mounting: DIN-rail or panel mounted
	Note: Optional RE-DIN-BRACKET is required for din mount.
	Dimensions:
	Width: 3.6 in (9.1 cm)
	Depth: 3.2 in (8.1 cm)
	Height: 0.9 in (2.3 cm)
	■ Weight: 1 lb. (0.45 kg)
IP Rating	IP32
Warranty	5 years
Made in	USA