

RSR Series Über-Rugged™ Managed DIN Rail Mount Ethernet Switches



Fast Ethernet Uplink Ports and Gigabit Ethernet Uplink Ports

RSR series switches are available with optional gigabit ports and an extended temperature range of -40 °C to +85 °C. Ultra-fast ring recovery times under 10 ms are possible using HIPER-Ring redundancy protocol and the switch's robust metal housing offers extended RFI/EMI and vibration immunity.

The term "Über-Rugged" is the only way to describe a switch that goes above and beyond the already rugged capabilities of Hirschmann switches by being able to provide maximum uptime in extreme environmental conditions.



Technical Information

Product Description		
Type	RSR20 Series	RSR30 Series
Available Ports	8 to 9	9 to 10
Construction		
Mounting	DIN Rail	
Protection Class	IP30	
Dimensions (WxHxD)	120 x 145 x 115 mm	
Weight	appr. 1 kg	
Ambient Conditions		
Operating Temperature	0 °C to +60 °C, -40 °C to +85 °C, or -40 °C to +85 °C (optional Conformal Coating)	
Storage/Transport Temperature	-40 °C to +85 °C	
Relative Humidity (non-condensing)	10% to 95%	
Conformal Coating	Yes (variant dependent)	
Interfaces		
V.24 Interface	1 x RJ11 socket	
USB Interface	1 x USB (ACA21-USB adapter)	
Software		
Supported Classic Software Levels	Layer 2 Professional (L2P)	
Power Requirements		
Operating Voltage	24/36/48 V DC or 60/120/250 V DC, 110/230 V AC	
PoE (802.3af) Ports Supported	n/a	
PoE Plus (802.3at) Ports Supported	n/a	
Regulatory Approvals		
Safety of Industrial Control Equipment	cUL508	
Hazardous Locations	Class 1 Div 2 (cUL1604)	
Ship	Germanischer Lloyd	
Transportation	NEMA TS2	
Railway (norm)	EN 50121-4	
Substation	IEC 61850-3, IEEE 1613	
Reliability		
MTBF Range	45.6 to 61.8 years	49.2 to 57.9 years
Warranty	5 years standard	

NOTE: These are the prominent technical specifications. For complete technical specifications visit: www.hirschmann.com



Configurator



RSR Über-Rugged™ Managed DIN Rail Mount Ethernet Switch Configurations

Fast Ethernet Switch RSR20 and Gigabit Ethernet Switch RSR30

R S 3 0 - 0 6 0 2 T 1 Z Z Z 6 S C C H P H H X X . X

Design/Models

RSR20 = Rail Switch Rugged Fast Ethernet
RSR30 = Rail Switch Rugged Gigabit Ethernet

Fast Ethernet Ports

06 = 6 x 10/100 Mbit/s 08 = 8 x 10/100 Mbit/s
 07 = 7 x 10/100 Mbit/s 09 = 9 x 10/100 Mbit/s

Gigabit Ethernet Ports

00 = 0 x 1000 Mbit/s 03 = 3 x 1000 Mbit/s
02 = 2 x 1000 Mbit/s (only RSR30-08)

Type 1 Uplink Port

T1 = 1 x Twisted-Pair RJ45	06 = SFP Slot Gigabit
M2 = 1 x Multimode SC	07 = Combo Port Gigabit
M4 = 1 x Multimode ST	MM = 2 x Multimode SC
S2 = 1 x Singlemode SC	JJ = 2 x Multimode MTRJ
S4 = 1 x Singlemode ST	NN = 2 x Multimode ST
L2 = 1 x Long Haul SC	UU = 2 x Singlemode SC
G2 = 1 x Long Haul + SC	VV = 2 x Singlemode ST
CC = 2 x Combo Port Gigabit	LL = 2 x Singlemode Long Haul SC
00 = 2 x SFP Slots Gigabit	GG = 2 x Singlemode Long Haul+ SC (200 km)

Type 2 Uplink Port

T1 = 1 x Twisted-Pair RJ45 (only if T1 is selected for Type 1 Uplink Port)	S2 = 1 x Singlemode SC
M2 = 1 x Multimode SC	S4 = 1 x Singlemode ST
M3 = 1 x Multimode MTRJ (only if JJ selected above)	L2 = 1 x Singlemode Long Haul SC
M4 = 1 x Multimode ST	G2 = 1 x Singlemode Long Haul+ SC (200 km)
	06 = SFP Slot Gigabit
	07 = Combo Port Gigabit
	ZZ = 2 x SFP Slots Gigabit (only RSR30-08)

Remaining Ports

T1 = 1 x Twisted-Pair RJ45 **Z6** = SFP Slot (100 Mbit/s) (only RSR30-07)

Temperature Range

S = 0 °C to +60 °C **F** = -40 °C to +85 °C
U = -40 °C to +85 °C inclusive Conformal Coating

Voltage Range 1

C = 24/36/48 V DC **K** = 60/120/250 V DV and 110/230 V AC

Voltage Range 2

C = 24/36/48 V DC **K** = 60/120/250 V DC and 110/230 V AC
 9 = None (only if K is selected above) (only if K is selected for Voltage Range 1)

Approvals

H = cUL508, Germanischer Lloyd, IEC 61850, IEEE 1613, EN 50121

Software Version (see page 12-15 for additional Management Software Functionality details)

P = Professional

Configuration

H = Standard

OEM Type

H = Standard

Software Release

XX.X = Current Software Release

NOTE: The last three part number categories (**Configuration**, **OEM Type** and **Software Release**) are optional.