RS20/RS30 Compact OpenRail Managed Ethernet Switches

Fast Ethernet Ports with/without PoE

The RS20 compact OpenRail managed Ethernet switches can accommodate from 4 to 25 port densities and are available with different Fast Ethernet uplink ports – all copper, or 1, 2 or 3 fiber ports. The fiber ports are available in multimode and/or singlemode.

Gigabit Ethernet Ports with/without PoE

The RS30 compact OpenRail managed Ethernet switches can accommodate from 8 to 24 port densities with 2 Gigabit ports and 8, 16 or 24 Fast Ethernet ports. The configuration includes 2 Gigabit ports with TX or SFP slots.

Technical Information

Product Description					
Type	**RS20 Series 4 Ports**	**RS20 Series 8 and 9 Ports**	**RS20 Series 16, 17, 24 and 25 Ports**	**RS30 Series 8 Ports**	**RS30 Series 16 and 24 Ports**
Available Ports	4 to 25				
Construction					
Mounting	DIN Rail				
Protection Class	IP20				
Dimensions (W x H x D)	47 x 131 x 111 mm	74 x 131 x 111 mm	110 x 131 x 111 mm	74 x 131 x 111 mm	110 x 131 x 111 mm
Weight	400 g	410 g	630 g	410 g	630 g
Ambient Conditions					
Operating Temperature	0 °C to +60 °C, -40 °C to +70 °C, or -40 °C to +70 °C (optional Conformal Coating)				
Storage/Transport Temperature	-40 °C to +70 °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 Enhanced (L2E), Layer 2 Professional (L2P)				
Power Requirements					
Operating Voltage	12/24/48 V DC (9.6 to 60 V) and 24 V AC (18 to 30 V) (redundant)				
Regulatory Approvals					
Safety of Industrial Control Equipment	cUL508				
Hazardous Locations	ISA12.12.01 Class 1 Div 2, ATEX 100a, Zone 2				
Ship	Germanischer Lloyd				
Transportation	NEMA TS2				
Railway (track)	EN 50121-4				
Substation	IEC 61850-3, IEEE 1613				
Reliability					
MTBF Range	65.5 to 74.9 years	43.9 to 62.5 years	22.1 to 44.8 years	30.6 to 51.9 years	22.9 to 39.1 years
Warranty	5 years standard				

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

RS20/RS22/RS30/RS32 Compact OpenRail Ethernet Switch Configurations

Fast Ethernet Uplink Ports/Fast Ethernet Uplink Ports with PoE
Gigabit Ethernet Uplink Ports/Gigabit Ethernet Uplink Ports with PoE

R	S	3	2	-	1	6	0	2	O	O	Z	Z	S	P	A	P	H	F	X	X	.	X

Design/Models

RS20 = Fast-Ethernet Uplink Ports
RS22 = Fast-Ethernet Uplink Ports with PoE
RS30 = Gigabit Ethernet Uplink Ports
RS32 = Gigabit Ethernet Ports with PoE

Fast Ethernet Ports

04 = 4 x 10/100 Mbit/s
08 = 8 x 10/100 Mbit/s
09 = 9 x 10/100 Mbit/s
16 = 16 x 10/100 Mbit/s
17 = 17 x 10/100 Mbit/s
24 = 24 x 10/100 Mbit/s
25 = 25 x 10/100 Mbit/s

Gigabit Ethernet Ports

00 = None (not present)
02 = 2 x 1000 Mbit/s

Type 1 Uplink Port

T1 = 1 x Twisted-Pair RJ45
M2 = 1 x Multimode SC
M4 = 1 x Multimode ST
S2 = 1 x Singlemode SC
S4 = 1 x Singlemode ST
L2 = 1 x Long Haul SC
G2 = 1 x Long Haul + SC
E2 = 1 x Singlemode + SC
EE = 2 x Singlemode + SC
O6 = 1 x SFP Slot GE
OO = 2 x SFP Slots GE
MM = 2 x Multimode SC
NN = 2 x Multimode ST
VV = 2 x Singlemode S
UU = 2 x Singlemode ST

Type 2 Uplink Port

T1 = 1 x Twisted-Pair RJ45
M2 = 1 x Multimode SC
M4 = 1 x Multimode ST
E2 = 1 x Singlemode+ SC
S2 = 1 x Singlemode SC
S4 = 1 x Singlemode ST
L2 = Singlemode Long Haul FX DSC (only 100 Mbit/s)
G2 = Singlemode Long Haul FX DSC 200 km (only 100 Mbit/s)
O6 = SFP slot (only 1000 Mbit/s)
ZZ = 2 x SFP Slots FE

Temperature Range

S = 0 °C to +60 °C
T = -40 °C to +70 °C (+60 °C PoE)
E = -40 °C to +70 °C (+60 °C PoE) inclusive Conformal Coating

Power Supply

D = 9.6 to 60 V DC and 18 to 30 V AC
P = 47 to 52 V DC (PoE)

Approvals

A = cUL508, cUL1604 Class 1 Div 2
H = cUL508, cUL1604, Class 1 Div 2, Germanischer Lloyd, IEC 61850-3: Substation, IEEE 1613: Substation - EN 50121-4: Railway (track)
B = cUL508, cUL1604, Class 1 Div 2, Germanischer Lloyd, IEC 61850-3: Substation, IEEE 1613: Substation – EN 50121-4: Railway (track)/ATEX 100a, Zone 2: Hazardous Location

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

E = Enhanced, additional filters and redundancy
P = Professional, DHCP server, additional security and diagnostics, advanced filtering and redundancy
U = Unmanaged

Configuration

H = Standard
E = EtherNet/IP Pre Settings
P = PROFINET Pre Settings

OEM Type

H = Standard
F = Steel Cabinet (PoE)

Software Release

XX.X = Current Software Release

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