



## RS2 Unmanaged DIN Rail Mount Ethernet Switches



### Configurable Unmanaged Ethernet-Switches with Tailor-made Configurations

The RS2 Series of switches offer advanced features such as redundant power inputs and most offer fault relay (triggerable by loss of power and/or port-link).

Standard features include 10/100 auto-negotiating and auto-crossing (either patch or cross-over cables will work in the ports), a 0 °C to +60 °C operating range (-40 °C to +70 °C available), a 24 V DC power input and an average MTBF exceeding 100 years.

All of the multimode (MM) and singlemode (SM) fiber optic ports are 100 Mbit/s and are available in a variety of connector options.

All Copper/RJ45 – RS2		
Part No.	Order No.	Ports/Features
RS2-4TX EEC	943 819-001	4 x 10/100 Mbit/s RJ45, link loss alarm, power loss alarm, fault relay output, ext. temp. -40 °C to +70 °C
RS2-5TX	943 732-003	5 x 10/100 Mbit/s RJ45, rugged die-cast metal housing offering wall-mount option
RS2-TX	943 686-003	8 x 10/100 Mbit/s RJ45, link loss alarm, power loss alarm, fault relay output

Copper/RJ45 and Fiber Mix		
Part No.	Order No.	Ports/Features
RS2-3TX/2FX EEC	943 771-001	3 x 10/100 Mbit/s RJ45 and 2 x 100 Mbit/s MM SC, link loss alarm, power loss alarm, fault relay output, ext. temp. -40 °C to +70 °C
RS2-3TX/2FX-SM EEC	943 772-001	3 x 10/100 Mbit/s RJ45 and 2 x 100 Mbit/s SM SC, link loss alarm, power loss alarm, fault relay output, ext. temp. -40 °C to +70 °C
RS 2-5TX/FX	943 732-103	4 x 10/100 Mbit/s RJ45 and 1 x 100 Mbit/s MM MTRJ, rugged die-cast metal housing offering wall-mount option
RS 2-4TX/1FX EEC	943 773-001	4 x 10/100 Mbit/s RJ45 and 1 x 100 Mbit/s MM SC, link loss alarm, power loss alarm, fault relay output, ext. temp. -40 °C to +70 °C
RS 2-4TX/1FX-ST EEC	943 119-002	4 x 10/100 Mbit/s RJ45 and 1 x 100 Mbit/s MM ST, link loss alarm, power loss alarm, fault relay output, ext. temp. -40 °C to +70 °C
RS 2-4TX/1FX-SM EEC	943 774-001	4 x 10/100 Mbit/s RJ45 and 1 x 100 Mbit/s SM SC, link loss alarm, power loss alarm, fault relay output, ext. temp. -40 °C to +70 °C



## RS20 and RS30 Unmanaged DIN Rail Mount Ethernet Switches

### Tailor-made Configurable Unmanaged Ethernet-Switches

The RS20/30 Unmanaged Ethernet switches are ideal for applications that are less dependent upon the features of switch management while maintaining the highest feature-set for an unmanaged switch.

Features include: from 8 up to 25 ports Fast Ethernet with options for up to 3x fiber ports or up to 24 fast Ethernet and option for 2 Gigabit Ethernet uplink ports SFP or RJ45 redundant power inputs via dual 24 V DC, fault relay (triggerable by loss of one power input and/or the loss of the link(s) specified), auto-negotiating and auto crossing, variety of connector options for Multimode (MM) and Singlemode (SM) fiber optic ports, choice of operating temperatures and conformal coating (standard is 0 °C to +60 °C, with -40 °C to +70 °C also available), and variety of approvals including IEC 61850-3, IEEE 1613, EN 50121-4 and ATEX 100a Zone 2.



### Standard Variants RS20

All Copper/RJ45		
Part No.	Order No.	Ports/Features
RS20-1600T1T1SDAU	943 434-047	16 x 10/100 Mbit/s RJ45

Multimode (MM)		
Part No.	Order No.	Ports/Features
RS20-0900NM4TDAU	943 434-058	3 x 100 Mbit/s MM ST and 6 x 10/100 Mbit/s RJ45
RS20-0900MMM2TDAU	943 434-059	3 x 100 Mbit/s MM SC and 6 x 10/100 Mbit/s RJ45
RS20-1600M2T1SDAU	943 434-049	1 x 100 Mbit/s MM SC and 15 x 10/100 Mbit/s RJ45
RS20-1600M2M2SDAU	943 434-048	2 x 100 Mbit/s MM SC and 14 x 10/100 Mbit/s RJ45
RS20-1600S2M2SDAU	943 434-052	1 x 100 Mbit/s MM SC, 1 x 100 Mbit/s SM SC and 14 x 10/100 Mbit/s RJ45
RS20-1600L2M2SDAU	943 434-055	1 x 100 Mbit/s MM SC, 1 x 100 Mbit/s Long Haul SM SC and 14 x 10/100 Mbit/s RJ45

Singlemode (SM)		
Part No.	Order No.	Ports/Features
RS20-0900VVM2TDAU	943 434-060	3 x 100 Mbit/s SM SC and 6 x 10/100 Mbit/s RJ45
RS20-1600S2T1SDAU	943 434-051	1 x 100 Mbit/s SM SC and 15 x 10/100 Mbit/s RJ45
RS20-1600S2S2SDAU	943 434-053	2 x 100 Mbit/s SM SC and 14 x 10/100 Mbit/s RJ45
RS20-1600L2T1SDAU	943 434-054	1 x 100 Mbit/s Long Haul SM SC and 15 x 10/100 Mbit/s RJ45
RS20-1600L2S2SDAU	943 434-056	1 x 100 Mbit/s Long Haul SM SC, 1 x 100 Mbit/s SM SC and 14 x 10/100 Mbit/s RJ45
RS20-1600L2L2SDAU	943 434-057	2 x 100 Mbit/s Long Haul SM SC and 14 x 10/100 Mbit/s RJ45
RS20-1600S2M2SDAU	943 434-052	1 x 100 Mbit/s MM SC, 1 x 100 Mbit/s SM SC and 14 x 10/100 Mbit/s RJ45
RS20-1600L2M2SDAU	943 434-055	1 x 100 Mbit/s MM SC, 1 x 100 Mbit/s Long Haul SM SC and 14 x 10/100 Mbit/s RJ45

**NOTE:** For further combinations for RS20 and RS30 unmanaged switches please visit: [www.hirschmann.com](http://www.hirschmann.com)



## Lite Managed Industrial Ethernet Switch – GECKO 4TX



### Lite Managed Industrial Ethernet Rail-Switch

The GECKO 4TX industrial Ethernet switch provides diagnostic, redundancy and security functions at an outstanding price-performance ratio. Although this "lightly" managed switch stands out with its simplicity, it also offers functionalities that enable more advanced capabilities than available with unmanaged devices. These include redundancy functionality for a high reliability of the network, and fast and simple error diagnosis for higher machine uptime and smooth production workflows. Furthermore, it is possible to turn off unused ports to prevent unwanted connections that may cause harm to your network. Finally, the GECKO helps you to get more status information from your network.



### Technical Information

Product Description	
Type	GECKO 4TX
Description	Lite Managed Industrial ETHERNET Rail-Switch, Store and Forward Switching Mode, fanless design
Switching/Routing	Lite managed Layer 2
Available Ports	4 x 10/100BASE-TX, TP-cable, RJ45 sockets, auto-crossing, auto-negotiation, auto-polarity
Order No.	942 104-001
Construction	
Mounting	DIN-Rail
Protection Class	IP30
Dimensions (W x H x D)	25 x 114 x 79 mm
Weight	100g
Ambient Conditions	
Operating Temperature	0 °C to +60 °C
Storage/Transport Temperature	-40 °C to +85 °C
Relative Humidity (non-condensing)	5% to 95%
Interfaces	
V.24 Interface	n/a
USB Interface	n/a
Power Requirements	
Operating Voltage	9.6 to 32 V DC
PoE (802.3af/at) Ports Supported	n/a
Software	
Management	SNMP v1, v2c, v3, Web based management
Diagnostic	Device status indication (LEDs), RMON (1) statistics, Simple interface statistics (MIB-2), Local Log-Files, LLDP
Configuration	BOOTP/DHCP
Security	Possibility to disable each port
Redundancy	RSTP
Filter	Store and Forward switching, QoS, TOS/DSCP prioritization, Static unicast/multicast address entries
Regulatory Approvals	
Safety of Industrial Control Equipment	cUL61010-1/-2-201
Reliability	
MTBF Range	56.6 years
Warranty	5 years standard

NOTE: These are the prominent technical specifications. For complete technical specifications visit: [www.hirschmann.com](http://www.hirschmann.com)



## RSB20 Series Basic Managed DIN Rail Mount Switches

### Fast Ethernet Uplink Ports

The RSB20 series of managed switches consists of 8 core models, each of which are optionally available in high temperature configurations and/or preconfigured with IGMP Snooping initially active (multicast filtering) for EtherNet/IP use. These switches offer redundant DC power inputs and a variety of multimode (SC), singlemode (SC), and SFP socket options.

The RSB20 portfolio offers users a quality, hardened, reliable communications solution that provides an economically attractive entry into the segment of managed switches.



### Technical Information

Product Description	
Type	RSB20 Series
Available Ports	8 to 9
Construction	
Mounting	DIN Rail
Protection Class	IP20
Dimensions (WxHxD)	47 x 131 x 111 mm
Weight	400 g
Ambient Conditions	
Operating Temperature	0 °C to +60 °C, -40 °C to +70 °C
Storage/Transport Temperature	-40 °C to +85 °C
Relative Humidity (non-condensing)	10% to 95%
Conformal Coating	No
Interfaces	
V.24 Interface	1 x RJ11 socket
USB Interface	n/a
Software	
Supported Classic Software Levels	Layer 2 Basic (L2B)
Power Requirements	
Operating Voltage	24 V DC (18 to 32 V)
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	ISA12.12.01 Class 1 Div 2
Ship	n/a
Transportation	n/a
Railway (norm)	n/a
Substation	n/a
Reliability	
MTBF Range	58.8 to 88 years
Warranty	5 years standard

NOTE: These are the prominent technical specifications. For complete technical specifications visit: [www.hirschmann.com](http://www.hirschmann.com)



## RSB20 Series Basic Managed DIN Rail Mount Switch Configurations

### Fast Ethernet Uplink Ports



All Copper/RJ45		
Part No.	Order No.	Ports/Features
RSB20-0800T1T1SAAB	942 014-001	8TX
RSB20-0800T1T1SAABE	942 014-017	8TX E, pre-configured MC filtering for EtherNet/IP
RSB20-0800T1T1TAABE	942 014-025	8TX EEC E, pre-configured MC filtering for EtherNet/IP
RSB20-0800T1T1TAAB	942 014-009	8TX EEC

Multimode (MM)		
Part No.	Order No.	Ports/Features
RSB20-0800M2M2SAAB	942 014-002	6TX/2FX MM
RSB20-0800M2M2SAABE	942 014-018	6TX/2FX MM E, pre-configured MC filtering for EtherNet/IP
RSB20-0800M2M2TAABE	942 014-026	6TX/2FX MM EEC E, pre-configured MC filtering for EtherNet/IP
RSB20-0800M2M2TAAB	942 014-010	6TX/2FX MM EEC
RSB20-0900M2T2SAAB	942 014-005	8TX/1FX MM
RSB20-0900M2T2SAABE	942 014-021	8TX/1FX MM E, pre-configured MC filtering for EtherNet/IP
RSB20-0900M2T2TAABE	942 014-029	8TX/1FX MM EEC E, pre-configured MC filtering for EtherNet/IP
RSB20-0900M2T2TAAB	942 014-013	8TX/1FX MM EEC
RSB20-0900MMM2SAAB	942 014-007	6TX/3FX MM
RSB20-0900MMM2SAABE	942 014-023	6TX/3FX MM E, pre-configured MC filtering for EtherNet/IP
RSB20-0900MMM2TAABE	942 014-031	6TX/3FX MM EEC E, pre-configured MC filtering for EtherNet/IP
RSB20-0900MMM2TAAB	942 014-015	6TX/3FX MM EEC

Singlemode (SM) Fiber and Copper		
Part No.	Order No.	Ports/Features
RSB20-0800S2S2SAAB	942 014-003	6TX/2FX SM
RSB20-0800S2S2SAABE	942 014-019	6TX/2FX SM E, pre-configured MC filtering for EtherNet/IP
RSB20-0800S2S2TAABE	942 014-027	6TX/2FX SM EEC E, pre-configured MC filtering for EtherNet/IP
RSB20-0800S2S2TAAB	942 014-011	6TX/2FX SM EEC
RSB20-0900S2T2SAAB	942 014-006	8TX/1FX SM
RSB20-0900S2T2SAABE	942 014-022	8TX/1FX SM E, pre-configured MC filtering for EtherNet/IP
RSB20-0900S2T2TAABE	942 014-030	8TX/1FX SM EEC E, pre-configured MC filtering for EtherNet/IP
RSB20-0900S2T2TAAB	942 014-014	8TX/1FX SM EEC

Singlemode (SM)/Multimode (MM) Fiber and Copper		
Part No.	Order No.	Ports/Features
RSB20-0900VVM2SAAB	942 014-008	6TX/2FX SM/1 FX MM
RSB20-0900VVM2SAABE	942 014-024	6TX/2FX SM/1 FX MM E, pre-configured MC filtering for EtherNet/IP
RSB20-0900VVM2TAABE	942 014-032	6TX/2FX SM/1 FX MM EEC E, pre-configured MC filtering for EtherNet/IP
RSB20-0900VVM2TAAB	942 014-016	6TX/2FX SM/1 FX MM EEC

SFP		
Part No.	Order No.	Ports/Features
RSB20-0900ZZZ6SAAB	942 014-004	6TX/3SFP
RSB20-0900ZZZ6SAABE	942 014-020	6TX/3SFP E, pre-configured MC filtering for EtherNet/IP
RSB20-0900ZZZ6TAABE	942 014-028	6TX/3SFP EEC E, pre-configured MC filtering for EtherNet/IP
RSB20-0900ZZZ6TAAB	942 014-012	6TX/3SFP EEC



## 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.



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### 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 (WxHxD)	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](http://www.hirschmann.com)

Configurator



## 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

RS32-16 02 OO ZZ SP AP HP FX.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	17 = 17 x 10/100 Mbit/s
08 = 8 x 10/100 Mbit/s	24 = 24 x 10/100 Mbit/s
09 = 9 x 10/100 Mbit/s	25 = 25 x 10/100 Mbit/s
<b>16</b> = 16 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	L2 = 1 x Long Haul SC	<b>OO</b> = 2 x SFP Slots GE
M2 = 1 x Multimode SC	G2 = 1 x Long Haul + SC	MM = 2 x Multimode SC
M4 = 1 x Multimode ST	E2 = 1 x Singlemode + SC	NN = 2 x Multimode ST
S2 = 1 x Singlemode SC	EE = 2 x Singlemode + SC	VV = 2 x Singlemode S
S4 = 1 x Singlemode ST	O6 = 1 x SFP Slot GE	UU = 2 x Singlemode ST

### Type 2 Uplink Port

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

### Temperature Range

**S** = 0 °C to +60 °C      **E** = -40 °C to +70 °C (+60 °C PoE)  
**T** = -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.



## RS40 Compact OpenRail Managed Ethernet Switches

### All Ports are Gigabit

The RS40 compact OpenRail managed Ethernet switch has 9 Gigabit ports. The switch offers 5 x 10/100/1000 RJ45 and 4 x 100/1000 RJ45/SFP combo ports (function of one RJ45 combo port is lost for each SFP utilized). Fiber uplink ports are available in multimode and/or single-mode by using Gigabit or 100 Mbit/s SFP transceivers.



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### Technical Information

Product Description		
Type	RS40 Series Standard Temperature	RS40 Series Extended Temperature
Available Ports	9	
Construction		
Mounting	DIN Rail	
Protection Class	IP20	
Dimensions (WxHxD)	74 x 131 x 111 mm	110 x 131 x 111 mm
Weight	530 g	600 g
Ambient Conditions		
Operating Temperature	0 °C to +60 °C, -40 °C to +70 °C	-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	25.8 to 27.1 years	
Warranty	5 years standard	

**NOTE:** These are the prominent technical specifications. For complete technical specifications visit: [www.hirschmann.com](http://www.hirschmann.com)

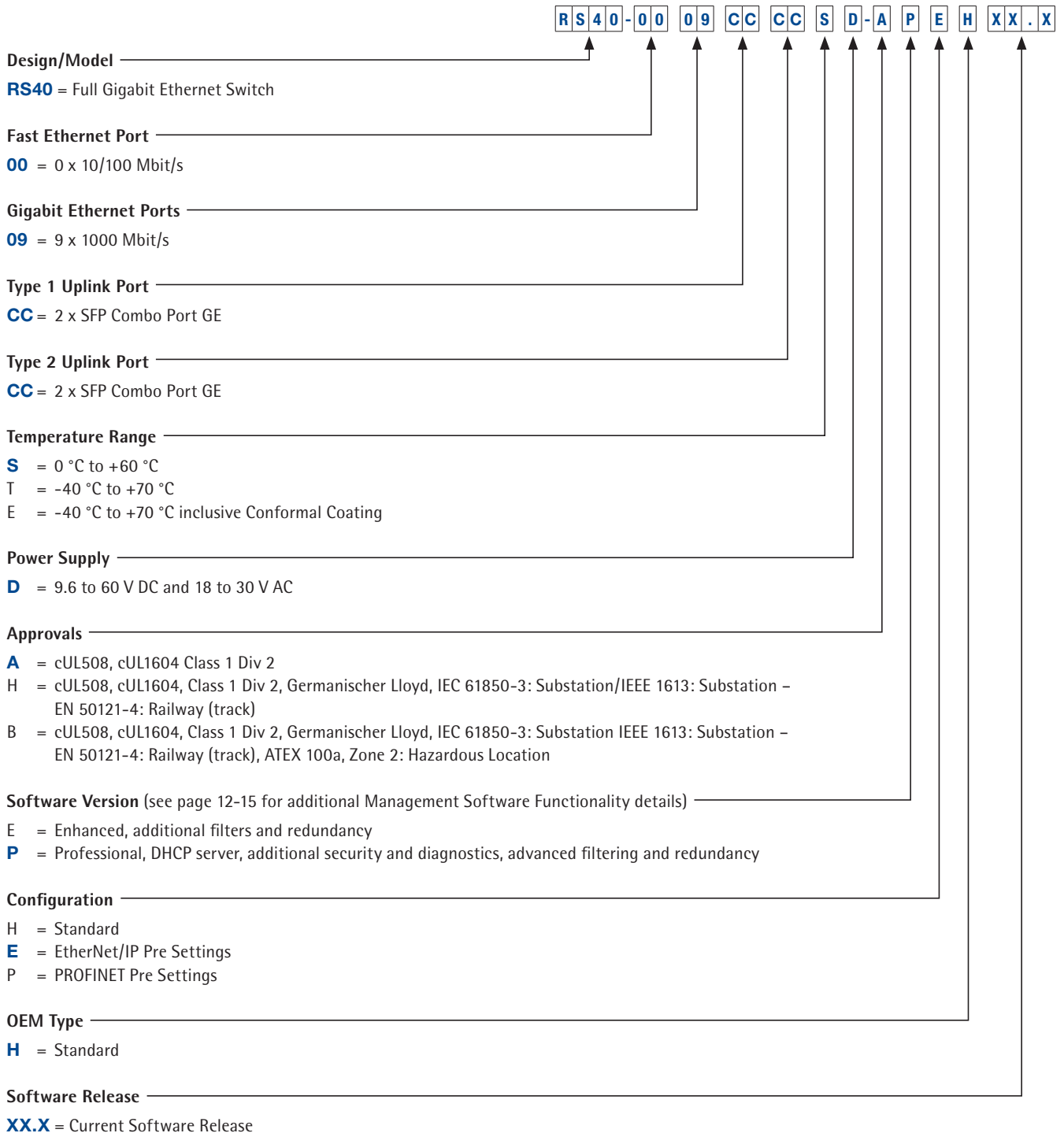


Configurator



## RS40 Compact OpenRail Managed Ethernet Switch Configurations

### Full Gigabit Ethernet Switches RS40



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