

## R V R SCMLCD1+1 Changeover Units System SCM User Manual

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**CHANGEOVER UNITS SYSTEM  
SCM  
MODELS  
SCMLCD1+1 SCML1+1SL SCMLCDN+1  
SCMMAN1+1/158 SCM6-1**



To ensure the continuity of transmission of the transmitting equipment, RVR produces various models of changeover units for the control of redundant configurations in 1 + 1 and N + 1 up to 6 + 1. By integrating coaxial relays, distributors and Audio, MPX and RDS routers, it is thus possible to manually or automatically switch the reserve transmission in case of failure of one of the main ones. Depending on the architecture of the transmitting site, dedicated models are available.

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## ORDERING INFORMATION

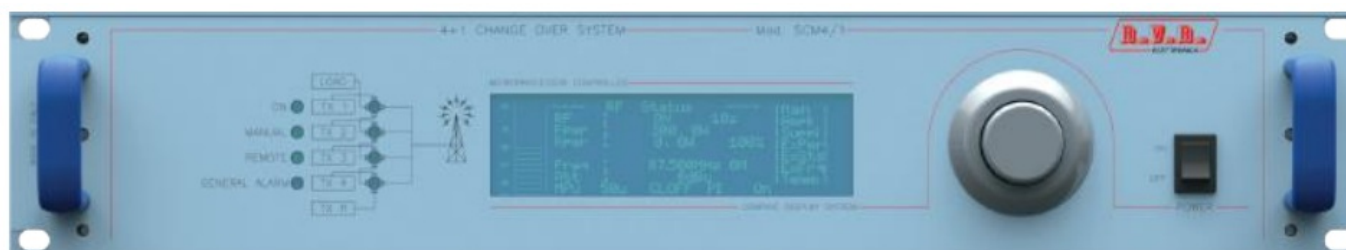
Model	Description
SCMLCD1+1	Telemetry automatic changeover unit.
<b>OPTION</b>	
SCMLCD1+1/T0	Automatic changeover “1+1” unit and telemetry unit with Nr 1 I/O base card on board.
SCMLCD1+1/T1	Automatic changeover “1+1” unit and telemetry unit with Nr 1 I/O additional card on board.
SCMLCD1+1/T2	Automatic changeover “1+1” unit and telemetry unit with Nr 2 I/O additional cards on board.
SCMLCD1+1/T3	Automatic changeover “1+1” unit and telemetry unit with Nr 3 I/O additional cards on board.

Model	Description
SCML1+1SL	Compact exchange unit for 1 + 1 systems with coaxial relays of any size.
<b>OPTION</b>	
SCML1+1SL/V1	Automatic Changeover “1+1” unit with 4 ways external relay. Power: min 150W max 1 kW. Without Telemetry.
SCML1+1SL/V2	Automatic Changeover “1+1” unit with 3 ways internal relay. Power: min 0W max 150W. Without Telemetry.
SCML1+1SL/V3	Automatic Changeover “1+1” unit with 4 ways external relay. Power: from 1kW up. Without Telemetry.
SCML1+1SL/V4	Automatic Changeover “1+1” unit with customized relay. Without Telemetry.

Model	Description
SCMMAN1+1/158	Manual changeover function across main and spare transmitter by coaxial relay control panel.

Model	Description
SCMLCDN+1	RVR changeover system is equipped with an on-board telemetry unit so that it guarantee utmost continuous service.
<b>OPTION</b>	
SCMLCDN+1/T0	Automatic Changeover "N+1" and telemetry unit with No. 2 I/O base cards on board.
SCMLCDN+1/T1	Automatic Changeover "N+1" and telemetry unit with No. 3 I/O base cards on board.
SCMLCDN+1/T2	Automatic Changeover "N+1" and telemetry unit with No. 4 I/O base cards on board.

Model	Description
SCM6-1	Automatic Changeover "N+1", up to 6 transmitters, with integrated telemetry.



### SCMLCD 1+1

Changeover Units System.



<https://www.rvr.it/it/products/components/changeover-units-system/1-1-changeover-system/scmlcd1-1/>

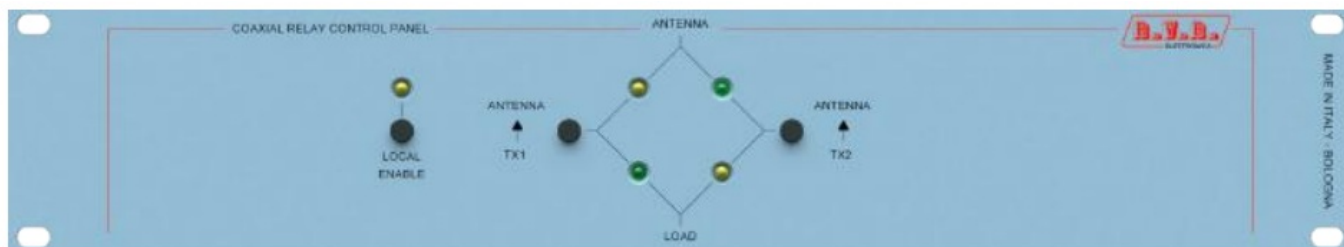


### SCML1+1SL

Changeover Units System.



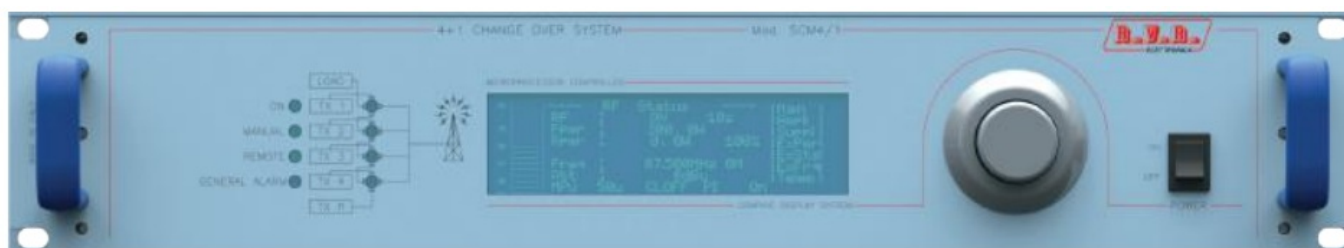
<https://www.rvr.it/it/products/components/changeover-units-system/1-1-changeover-system/scml1-1sl-scml1-1sl/Generate new>



**SCMMAN1+1/158**  
Changeover Units System.

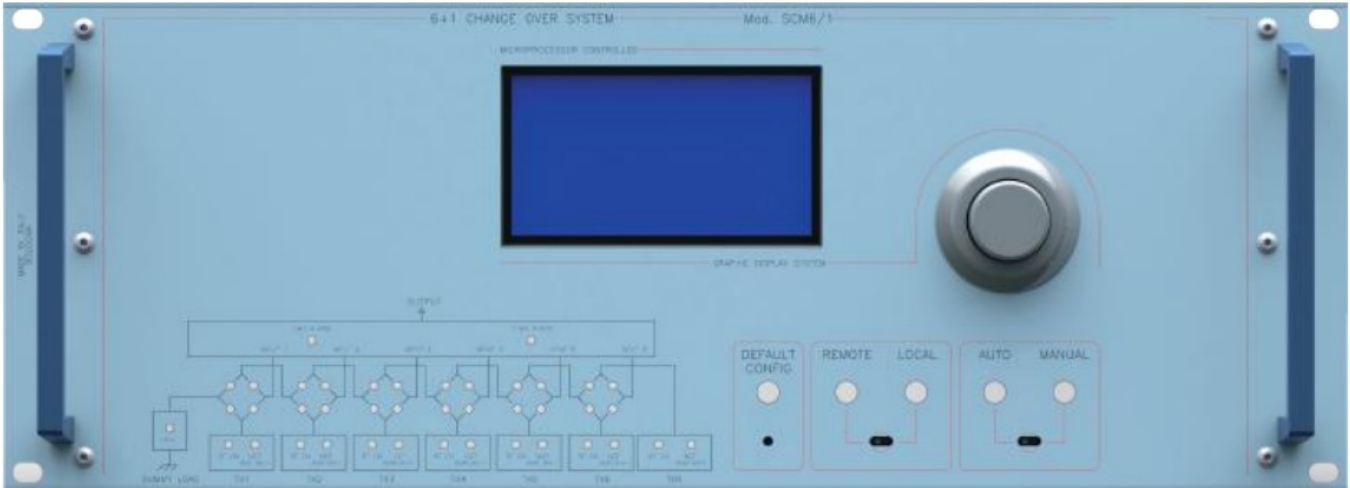


<https://www.rvr.it/it/products/components/changeover-units-system/1-1-changeover-system/scmman1-1-158/>



**SCMLCDN+1**  
Changeover Units System.





**SCM6-1**  
Changeover Units System.



**SCMLCD1+1**

Parameters			Value	Notes
GENERALS				
Integrated coax-relè y / V2	Onl		Yes	
Ambient working temperature			-10 °C to + 50 °C / 95%	Relative humidity non condensing
POWER REQUIREMENTS				
AC Power input	AC Supply voltage		115 – 125 – 230 – 250 VAC ±15%	
	AC Apparent power consumption	W		
	Connector		VDE IEC Standard	
DC Power input	DC Supply voltage		24 VDC	
	DC Current		A	

<b>MECHANICAL DIMENSIONS</b>			
<b>Physical dimensions</b> L x H x W	mm / inch	483	EIA rack
	mm / inch	88 / 3 1/2	2HE
<b>Weight</b>	kg	About 4	
<b>Cooling</b>		Convection cooling	
<b>Acoustic noise</b>	dB A	0	
<b>AUDIO INPUTS</b>			
<b>Analog</b>		8 ÷ 32	Analog inputs depending by expansion card number.
<b>Digital / Analog</b>		16 ÷ 64	Digital inputs depending by expansion card number.
<b>OUTPUTS</b>			
<b>Relay</b>		8 ÷ 32	Analog inputs depending by expansion card number.
<b>FUSES</b>			
<b>On mains</b>		1 External fuse 4 A F – 5X20 mm	
<b>On services</b>		X	
<b>On PA Supply</b>		X	
<b>On driver supply</b>		X	

## SCML1+1SL

Parameters			Value	Notes
<b>GENERALS</b>				
<b>Integrated coax-relè</b>	onl		Yes	
			y / V2	
<b>Ambient working temperature</b>			-10 °C to + 50 °C / 95%	Relative humidity non condensing
<b>POWER REQUIREMENTS</b>				
<b>AC Power input</b>	AC Supply Voltage		115 – 125 – 230 – 250 VAC ±15%	
	AC Apparent Power Consumption	W		

	Connector		VDE IEC Standard	
DC Power input	DC Supply Voltage		24 VDC	
	DC Current		A	
MECHANICAL DIMENSIONS				
Phisical dimensions L x H x W	mm / inch	483 / 19	EIA rack	
	mm / inch	44 / 3 1/2	1HE	
Weight	kg	About 0,3		
Cooling		Convection cooling		
Acoustic noise	dB A	0		
AUDIO INPUTS				
Analog		Specific RVR connectors		
Digital / Analog		Specific RVR connectors		
OUTPUTS				
Relay		Specific RVR connectors		
INTERFACES				
User interface		LCD – 2 x 16 with Encoder		
Signalling LEDs / Synoptical		Yes		
I2C		Yes		
TC/TS		Yes		
FUSES				
On mains		1 External fuse 1,6 A T – 5X20 mm		
On services		X		
On PA Supply		X		
On driver supply		X		

Parameters		Value	Notes
<b>GENERALS</b>			
<b>Ambient working temperature</b>		-10 °C to + 50 °C / 95%	Relative humidity non condensing

<b>AC Power input</b>	AC Supply Voltage		115 – 230 VAC ±15 %	
	AC Apparent Power Consumption	W	2	
	Connector		Terminal Block (L-N -PE)	

<b>MECHANICAL DIMENSIONS</b>				
<b>Physical dimensions</b>	L x H x W	mm / inch	483	EIA rack
		mm / inch	88 / 3 1/2	2HE
<b>Weight</b>		kg	About 0,3	
<b>Cooling</b>			Convection cooling	
<b>Acoustic noise</b>		dB A	0	

<b>INTERFACES</b>				
<b>Signalling LEDs / Synoptical</b>	LOCAL	mm	Yellow 5	
	TX1 to ANT	mm	2 x Green 5	
	TX2 to ANT	mm	2 x Yellow 5	
<b>Push button</b>	LOCAL ENABLE		Used for enabling change with push button	
	TX1 to ANT		Used for change Relay in a POS1	
	TX2 to ANT		Used for change Relay in a POS2	

<b>AUDIO INPUTS</b>				
<b>Digital</b>			Command Switch relay	Terminal Block
<b>OUTPUTS</b>				
<b>Digital</b>			Position Switch relay	Terminal Block
<b>Digital</b>			Out of Position Relay	Terminal Block



FUSES			
On mains		1 Fuse 125mA – 5 X20 mm	
On services		X	
On PA Supply		X	
On driver supply		X	

## SCMLCDN+1

Parameters			Value	Notes
GENERALS				
Integrated coax-relè y / V2	Onl		Yes	
Ambient working temperature			-10 °C to + 50 °C / 95%	Relative humidity non condensing
POWER REQUIREMENTS				
AC Power input	AC Supply voltage		115 – 125 – 230 – 250 VAC ±15%	
	AC Apparent power consumption	W		
	Connector		VDE IEC Standard	
DC Power input	DC Supply voltage		24 VDC	
	DC Current		A	
MECHANICAL DIMENSIONS				
Physical dimensions L x H x W		mm / inch	483	EIA rack
		mm / inch	88 / 3 1/2	2HE
Weight		kg	About 4	
Cooling			Convection cooling	
Acoustic noise		dB A	0	
AUDIO INPUTS				
Analog			8 ÷ 32	Analog inputs depending by expansion card number

<b>Digital / Analog</b>		16 ÷ 64	Digital inputs depending by expansion card number
<b>OUTPUTS</b>			
<b>Relay</b>		8 ÷ 32	Analog inputs depending by expansion card number
<b>INTERFACES</b>			
<b>User interface</b>		Graphical LCD – 128 x 64 with Encoder	
<b>Signalling LEDs / synoptical</b>		Yes	
<b>I2C</b>		Yes	
<b>RS232</b>		Yes	
<b>FUSES</b>			
<b>On mains</b>		1 External fuse 4 A F – 5X20 mm	
<b>On services</b>		X	
<b>On PA Supply</b>		X	
<b>On driver supply</b>		X	

#### SCM6/1

Parameters			Value	Notes
<b>GENERALS</b>				
<b>Ambient working temperature</b>			-10 °C to + 50 °C / 95%	Relative Humidity non condensing
<b>POWER REQUIREMENTS</b>				
<b>AC Power input</b>	AC Supply voltage		115 – 125 – 230 – 250 VAC ±15%	
	AC Apparent power consumption	W	50	
	Connector		VDE IEC Standard	
<b>DC Power input</b>	DC Supply voltage		24 VDC	
	DC Current		<2 a	
<b>MECHANICAL DIMENSIONS</b>				
<b>Physical dimensions</b> L x H x W		mm / inch	483	EIA rack
		mm / inch	176 / 3 1/2	4HE

<b>Weight</b>	kg	About 6,5	
<b>Cooling</b>		Forced with internal fans	
<b>Acoustic noise</b>	dB A	<58	
<b>AUDIO INPUTS</b>			
<b>Digital</b>			
<b>OUTPUTS</b>			
<b>Relay</b>		Specific RVR connectors	
<b>INTERFACES</b>			
<b>User interface</b>		Graphical LCD – 240 x 128 with Encoder	
<b>Signalling LEDs / synoptical</b>		Yes	
<b>TC/TS</b>		Yes	
<b>FUSES</b>			
<b>On mains</b>		1 External fuse 4 A – 5X20 mm	
<b>On services</b>		X	
<b>On PA Supply</b>		X	
<b>On driver supply</b>		X	

All pictures are RVR's property and they are only indicative and not binding. The pictures can be modified without notice. These are general specifications. They show typical values and are subject to change without notice.




<https://www.rvr.it>



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## Documents / Resources

	<p><a href="#">R V R SCMLCD1+1 Changeover Units System SCM</a> [pdf] User Manual  SCMLCD1 1 Changeover Units System SCM, SCMLCD1 1, Changeover Units System SCM, U  nits System SCM, System SCM</p>
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## References

-  [R.V.R. Elettronica - Broadcast Systems](#)