



StingRay RF Over Fibre

200 series chassis for 200 series StingRay modules

The compact StingRay 200 Series RF over fibre indoor and outdoor chassis are designed to house the StingRay 200 series range of RF over Fibre modules.

200 series chassis provide resilience with hot-swap active components and offer local and remote control and monitoring options.

Typical applications:

- Ku-band and Ka-band ready for HTS applications
- Distribution of comms traffic across site with minimal loss
- General satcoms– teleports, video head-ends, TVRO
- Compact solution for small quantity links such as tactical HQ
- A resilient solution for satellite teleports with transition distances up to 300 km

Chassis Options



Compact indoor & outdoor chassis options, which can be part populated



Resilience from dual redundant hot-swap power supplies, hot-swap fibre modules & fans



Remote control & monitoring via RJ45 Ethernet port with SNMP & web browser interface



10MHz Inject from an external source chassis option



Local control & monitoring via front panel push buttons & display



Ethernet via optical 1000BaseLX SFP module chassis option



Indoor chassis showing hot-swap power supply modules , fibre modules and fans



Outdoor Unit (ODU201)





ETL Systems

Excelling in RF Engineering

200 Series Chassis Options

Please see individual datasheets for 200 series RF over Fibre module options and RF specifications.

Indoor Chassis Options - Technical Specifications						
Model Numbers	SRY-C200-1U	SRY-C207-1U	SRY-C201-2U	SRY-C206-2U	SRY-C205-2U	SRY-C209-2U
Capacity	Up to 4 modules (200 series)		Up to 16 modules (200 series)			Up to 12 modules (200 series)
Redundancy options	1+1 redundancy configuration available with modules SRY-L1-DIV213 & SRY-L1-SW214					Dual 4+2 with Two independent 4+2 switch matrices. 4+2 block can be subdivided into 1+1, 2+1 etc.
RF Switching	-	-	-	-	-	Connectors: 50Ω SMA Frequency Range: 850 - 2450MHz Matrix Loss: 3.5 dB typ. 4.5 dB max. Isolation: -60 dB typ. -50 dB min.
Dimensions	1U high x 450 mm deep x 19" wide		2U high x 450 mm deep x 19" wide			
Local Control & Monitoring	Front panel LCD and keypad. Front panel mounted.					
Remote Control & Monitoring	Ethernet via RJ45, 10baseT/100BaseTx			Ethernet via optical 1000BaseLX SFP module	Ethernet via RJ45, 10baseT/100BaseTx	
	ETL protocol over TCP/IP, SNMP, built in web server. Serial port. Dry contact alarm summary.					
Optical Ethernet Port	-	-	-	1 x SFP module slot fitted with 1000BASE-LX10 SFP. Gigabit Ethernet	-	-
Optical Connector	-	-	-	LC duplex, single mode fibre, not angle polished	-	-
Optical Wavelength	-	-	-	1310 nm (other wavelength SFPs available)	-	-
Module Features Monitored	Includes: Temperature, RF Power, Optical Power					
LNB Power (on TX modules)	Up to 0.5A per channel, not exceeding 2.8A total		Up to 500mA per channel, 8A total power			N/A
10MHz Injection	-	+9 dBm, input level (27 dBm max. level)	-	-	+15 dBm input level (27 dBm max. level)	-
PSU Power	100-240 VAC, 50/60 Hz					
	Fused 4A T. Dual IEC.		Fused 4A T. Dual IEC.			
PSU Redundancy	Dual Hot Swap modules. Diode OR. Front Mounted.					
AC Consumption	< 150 W all channels		< 405 W all channels			< 100 W all channels occupied
Heat Load	< 65 W, 222 BTU/hr		< 220 W, 495 BTU/hr			< 100 W, 225 BTU/hr
MTBF	> 120,000 hours			> 100,000 hours		
Operating / Storage Temperature	Operating: 0 to 50°C / Storage: -20°C to +75°C					
Altitude & Humidity	Altitude:10,000 ft AMSL operational, 30,000 ft AMSL storage/transport			20 to 90% non-condensing		
Weight & Front panel colour	TBD kg RAL9003 White semi-matte		12 kg RAL9003 White semi-matte			

Outdoor Chassis Options - Technical Specifications				
Model Numbers	SRY-ODU-201		SRY-ODU-205	SRY-ODU-206
Capacity	Up to 10 modules (200 series)		Up to 10 modules (200 series)	Up to 10 modules (200 series)
Redundancy options	1+1 redundancy		1+1 redundancy	1+1 redundancy
Dimensions	407 high x 356 deep x 254mm wide		610 high x 508 deep x 254mm wide	610 high x 508 deep x 254mm wide
Local Control & Monitoring	Optional			
Remote Control & Monitoring	Ethernet via RJ45, 10baseT/100BaseTx (Optional optical Ethernet connection available, 1310 nm, 10km reach bidirectional over 2 single mode optical fibres)			
	ETL protocol over TCP/IP, SNMP, built in web server. Serial port. Dry contact alarm summary			
Module Features Monitored	Includes: Temperature, RF Power, Optical Power, PSU status & Individual fans		Includes: Temperature, RF Power, Optical Power, PSU status & Individual fans	Includes: Temperature, RF Power, Optical Power, PSU status & Individual fans
LNB Power	13/18V Module must support LNB (TX modules)		13/18V Module must support LNB (TX modules)	13/18V Module must support LNB (TX modules)
10MHz Injection	With SRY-OPT16-10M		With SRY-OPT16-10M	With SRY-OPT16-10M
PSU Power & Redundancy	100-240 VAC 50/60Hz (Fused 6A), Dual Hot-Swap Modules, Diode OR			
AC Power Consumption	< 260 W all channels occupied			< 400 W all channels occupied
Heat Load	<145 W, 495 BTU/hr			
Operating Temperature	-20°C to +45°C, 12 feeds with LNB power		-20°C to +60°C	-20°C to +55°C, 10 feeds with LNB power
Humidity	20 to 90% non-condensing			
Weight & Front panel colour	21 kg / RAL9003 White semi-matte			