

TDCSS 024 Gold, DCSS LNB

Article No. 304881

SAT-SCR LNB Incl. 2 x Universal outputs

- High quality and efficient DCSS + 2xLegacy LNB
- Advanced PLL technology
- Excellent cross polar rejection
- Low noise / phase noise
- High gain / low power consumption
- Weather resistant with sliding cover
- 24 User Bands



DCSS Technology

Digital channel stacking technology (DCSS) enables installations with up to 24 satellite receivers connected over a single coax cable and using the EN50494/EN50607 protocols - also known as "Dynamic" mode. In this mode, the satellite receivers can access any transponder of the received satellite.

Digital channel stacking technology uses fast wideband analogue to digital converters and applies digital signal processing to select desired transponder channels, up convert them and stack them as IF signals over the output port.

DCSS LNBs offer a cost effective and elegant solution for distributing the satellite signals to multi-tuner (headends) over one cable (mostly existing cabling) hence significantly reducing cost and complexity of the installation.

Benefits:

Increases the number of satellite positions up to 4 that can be received with the TDcH or TDmH

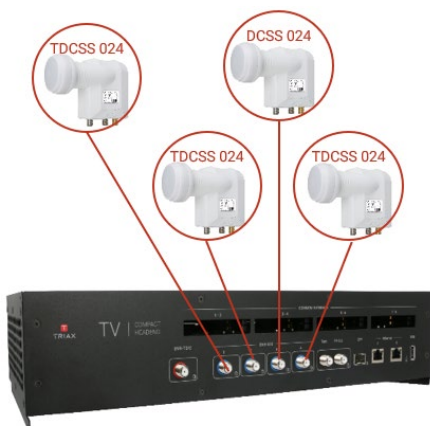
Save installation time, cost and space with less hardware and cabling

Reuse of existing cables to expand the solution to more satellite positions

TDcH / TDmH Installation Examples:

Installation with TDCSS 024 LNBs:

With 4 TDCSS 024 LNBs and only 4 cables, up to 4 satellites positions and 16 polarizations can be received.



tem			Units	Specification			Note & Test Condition
				Min.	Typical	Max.	
Art No: 304881			TDCSS 024 Gold, DCSS LNB				
R.F	Input Frequency Range		GHz	10.7		12.75	@ Vertical \ Horizontal
	Input Feedhorn Type	Linear		Offset, 40mm diameter			
I.F	Output Frequency Range		MHz	950		2150	
	Output VSWR		Ratio		2.0:1		@ 950~2150MHZ
	Output Connector			75ohms Female, F-Conn			
LO	Local Oscillator Frequency DCSS band		GHz		10.4		
	Local Oscillator Frequency Low band				9.75		
	Local Oscillator Frequency High band				10.6		
	Local Oscillator stability		MHz			±1	@ 25°C
						±2	@ -30°C~+70°C
	Phase Noise Performance	@1KHz	dBc/Hz			-65	@ 25°C
		@10KHz	dBc/Hz			-83	
		@100KHz	dBc/Hz			-95	
Conversion Gain			dB	55			@ -30°C~+70°C
Gain Flatness @ Any 26MHz Bandwidth			dB (p-p)			±0.75	
Noise Figure			dB		0.3		
Cross Polarization Isolation			dB	22			
Image Rejection			dB	40			
Bandwidth User Band			MHz		38		@ default
Number of User Band						24	@ User Bands
Standard configuration							@ Dynamic mode
	EN50494+EN50607	UB1	MHz		1210		
		UB2	MHz		1420		
		UB3	MHz		1680		
		UB4	MHz		2040		
		UB5	MHz		1005		
		UB6	MHz		1050		
		UB7	MHz		1095		
		UB8	MHz		1140		
	EN50607	UB9	MHz		1260		
		UB10	MHz		1305		
		UB11	MHz		1350		
		UB12	MHz		1475		
		UB13	MHz		1520		
		UB14	MHz		1565		
		UB15	MHz		1610		
		UB16	MHz		1725		
		UB17	MHz		1770		
		UB18	MHz		1815		
		UB19	MHz		1860		
		UB20	MHz		1905		
		UB21	MHz		1950		
		UB22	MHz		1995		
		UB23	MHz		2085		
		UB24	MHz		2130		
DC Current Consumption			mA			350 (DCSS) 200 (Legacy)	@13.5V(24UBs)
Operation Temperature			°C	-30°C		70°C	@ Relative Humidity 95%