



**dSCR Optical Receiver  
with 2x wideband (V+H), 2x Legacy/dCSR and 1x DTT outputs  
IDLF-RXLOO1-W0000-OPR  
Item: 6113**

The Unifiber™ dSCR optical receiver connects to an Inverto's Unifiber optical transmitter over a fiber Passive-Optical-Network to receive satellite and terrestrial signals combined over a single fiber cable. The dSCR receiver offers 2 Legacy/dCSR ports with combined DTT signal, 2 Wideband satellite ports (Vertical and Horizontal) and 1 independent DTT port supporting all FM, DAB and VHF/UHF DTT broadcasts. Each of the dSCR ports provide 16 User Bands and supports Legacy mode on startup with an automatic switch from Legacy to dSCR. The receiver is powered by an external power supply through the DC-In port. Alternatively, the dSCR and Wideband ports can be powered by their own connected STBs and which would power the DTT port too. A status LED helps the installer to validate the power level of the optical input signal and guarantee the quality of the RF signals at the outputs of the receiver.

**Main Features:**

- Built-in high dynamic range optical AGC (-15~-5dBm) increasing signal quality
- Optical wavelength 1100-1650 nm, works with all Inverto Unifiber transmitters
- 2 Legacy/dCSR satellite ports with combined DTT, programmable (with SatPal\*)
- 2 Wideband satellite ports (Vertical / Horizontal)
- 1 independent DTT port supporting all FM, DAB and DTT broadcasts
- Quick and easy install, power from external power supply or satellite ports
- For indoor installations, IP54

\* sold separately



## Technical data

Optical input																																			
Wavelength	1100 ~ 1650 nm																																		
Optical input level (with AGC)	-15 ~ -5 dBm																																		
Optical port	1, FC/UPC																																		
Unicable outputs	2x Sky dSCR (16 UBs) / SatCR / Legacy auto-detect with combined Terrestrial signal																																		
Satellite frequency range	950 ~ 2150 MHz																																		
Output power level (AGC) - dSCR	-25 dBm (83dBuV)																																		
Output power level (AGC) - Legacy	-25 dBm (83dBuV)																																		
Output level variation - dSCR	2 dB max.																																		
Output level variation - Legacy	4 dB max.																																		
User bands	<table> <thead> <tr> <th>Sky UK (dSCR) User Bands:</th> <th>EN50494/EN50607 User Bands:</th> </tr> </thead> <tbody> <tr><td>UB3: 1680 MHz</td><td>1: 1210 MHz (EN50494)</td></tr> <tr><td>UB9: 1280 MHz</td><td>2: 1420 MHz (EN50494)</td></tr> <tr><td>UB11: 1380 MHz</td><td>3: 1680 MHz (EN50494)</td></tr> <tr><td>UB14: 1480 MHz</td><td>4: 2040 MHz (EN50494)</td></tr> <tr><td>UB15: 980 MHz</td><td>5: 985 MHz (EN50607)</td></tr> <tr><td>UB16: 1030 MHz</td><td>6: 1050 MHz (EN50607)</td></tr> <tr><td>UB17: 1080 MHz</td><td>7: 1115 MHz (EN50607)</td></tr> <tr><td>UB18: 1130 MHz</td><td>8: 1275 MHz (EN50607)</td></tr> <tr><td>UB19: 1530 MHz</td><td>9: 1340 MHz (EN50607)</td></tr> <tr><td>UB20: 1580 MHz</td><td>10: 1485 MHz (EN50607)</td></tr> <tr><td>UB21: 1630 MHz</td><td>11: 1550 MHz (EN50607)</td></tr> <tr><td>UB22: 1730 MHz</td><td>12: 1615 MHz (EN50607)</td></tr> <tr><td>UB23: 1780 MHz</td><td>13: 1745 MHz (EN50607)</td></tr> <tr><td>UB24: 1830 MHz</td><td>14: 1810 MHz (EN50607)</td></tr> <tr><td>UB25: 1880 MHz</td><td>15: 1875 MHz (EN50607)</td></tr> <tr><td>UB26: 1930 MHz</td><td>16: 1940 MHz (EN50607)</td></tr> </tbody> </table>	Sky UK (dSCR) User Bands:	EN50494/EN50607 User Bands:	UB3: 1680 MHz	1: 1210 MHz (EN50494)	UB9: 1280 MHz	2: 1420 MHz (EN50494)	UB11: 1380 MHz	3: 1680 MHz (EN50494)	UB14: 1480 MHz	4: 2040 MHz (EN50494)	UB15: 980 MHz	5: 985 MHz (EN50607)	UB16: 1030 MHz	6: 1050 MHz (EN50607)	UB17: 1080 MHz	7: 1115 MHz (EN50607)	UB18: 1130 MHz	8: 1275 MHz (EN50607)	UB19: 1530 MHz	9: 1340 MHz (EN50607)	UB20: 1580 MHz	10: 1485 MHz (EN50607)	UB21: 1630 MHz	11: 1550 MHz (EN50607)	UB22: 1730 MHz	12: 1615 MHz (EN50607)	UB23: 1780 MHz	13: 1745 MHz (EN50607)	UB24: 1830 MHz	14: 1810 MHz (EN50607)	UB25: 1880 MHz	15: 1875 MHz (EN50607)	UB26: 1930 MHz	16: 1940 MHz (EN50607)
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User band bandwidth	default 46MHz (20-64 MHz configurable)																																		
User band gain ripple	3 dB max.																																		
Control protocols	Sky dSCR / SatCR / EN50494 / EN50607 DiSEqC 1.x / 2.0, 13/18VDC + 0/22kHz, Legacy/dSCR auto-switching																																		
Isolation dSCR-dSCR ports	30 dB min.																																		
Isolation dSCR-DTT ports	30 dB min.																																		
DTT frequency	88 ~ 240 MHz, 470 ~ 790 MHz																																		
DTT output level	-33 dBm (75dBuV)																																		
DTT output level variation	4 dB max.																																		
Return loss	10 dB min.																																		
Impedance	75 Ω																																		
Satellite wideband outputs																																			
Output ports	2 (Vertical , Horizontal), F-type																																		
Output frequency range	290 ~ 2350 MHz																																		
Output power level	-33 dBm (75dBuV)																																		
Output power supply	10 - 20 VDC																																		
Return loss	10 dB min.																																		
Impedance	75 Ω																																		

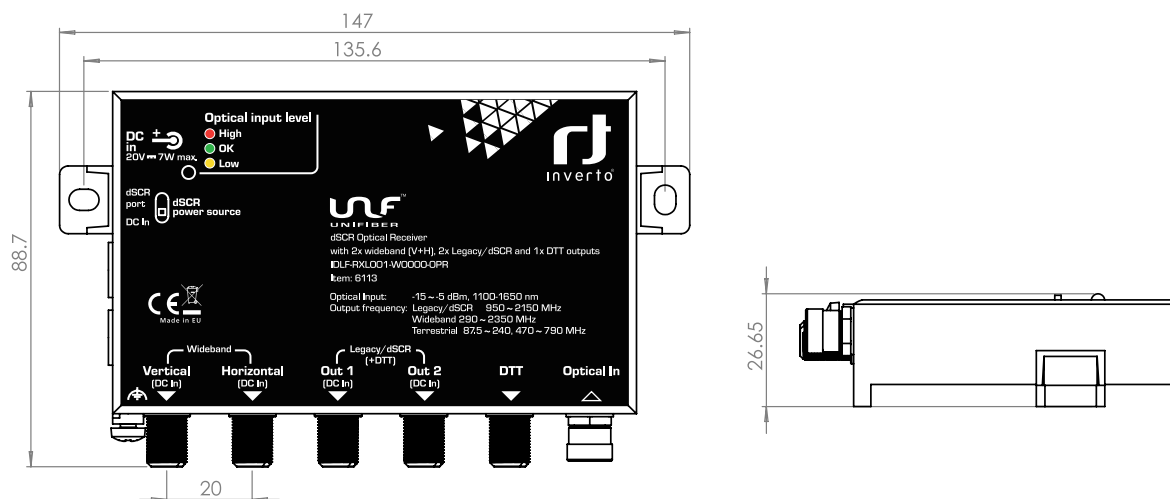


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DTT outputs	
Output ports	1, F-type
Frequency range	FM/DAB/VHF 88 ~ 240 MHz UHF 470 ~ 790 MHz
Output level	-33 dBm (75dBuV)
Output level variation	4 dB max.
Return loss	8 dB min.
Impedance	75 $\Omega$
Power supply	20 V DC, 3.5/1.3 mm DC jack
dSCR/Wideband ports power supply	13/18VDC
Power consumption	6.8 W max.
Earthing terminal	Yes
Optical input level LED	Green = OK, RED = High optical input power, Yellow=Low optical input power
dSCR ports power supply options (manual switch)	from DC in / from connected STB
Operating temperature	-20°C ~ +50°C
Dimensions	147 x 89 x 26 mm
Weight	360 g

## Logistical info

Packaging dimensions (h x w x d)	16.4 x 10.2 x 3.1 cm
Packaging weight	0.4 kg
Quantity per carton	20 pcs
Carton dimensions (h x w x d)	32.2 x 33.9 x 12.2 cm
Carton weight	8 kg
Quantity per pallet	1200 pcs



For purpose of brevity, some product descriptions in this sheet remain at platform level and may not be referred to as detailed datasheets of the products. Inverto Digital Labs reserves the right to amend, omit or add products, product-lines, and / or features without notice.

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