

Unicable II®

**Cascadable Multiswitch with Terr input & 8 Sky dSCR
/SatCR/ Legacy + equalized Terrestrial outputs**
ISKY-UST112-CU008-16S
Item: 6595



This Multiswitch unit connects to a Quattro or Wideband LNBS and offers a terrestrial input port to connect a terrestrial antenna and enable the distribution of satellite TV as well as DTT/DAB broadcasts at MDU/IRS installations.

A manual switch selects whether the satellite inputs connect to a Quattro LNB or up to two Wideband LNBS for receiving up to two full satellite broadcasts. The loop-through Trunk ports can be connected to cascade additional Multiswitch units.

The DC-input port of the Multiswitch unit powers the Trunk lines which power the connected LNB and the built-in Terrestrial amplifier of the unit and of any other cascaded units. The Trunk power LED will turn green when the Trunk lines are powered.

The output ports are powered by the connected STBs enabling super low power consumption from the Trunk lines and powering as many cascaded switches as possible using a single power supply unit. If a connected STB is not able to power its respective port, a power inserter can be utilized. The Multiswitch features a manual switch allowing to power the Trunk lines from the STB ports. If the connected STBs are not able to provide sufficient power, a power inserter can be utilized. This is useful in installations having no power supply available next to the Multiswitch unit in order to power its Trunk lines and the connected LNB via the DC-in port.

Each of the eight STB output ports is compatible with either Sky Q, Sky+ HD or Sky+ STB models, delivers 16 User Bands and features a Port status LED indicating its operational mode:

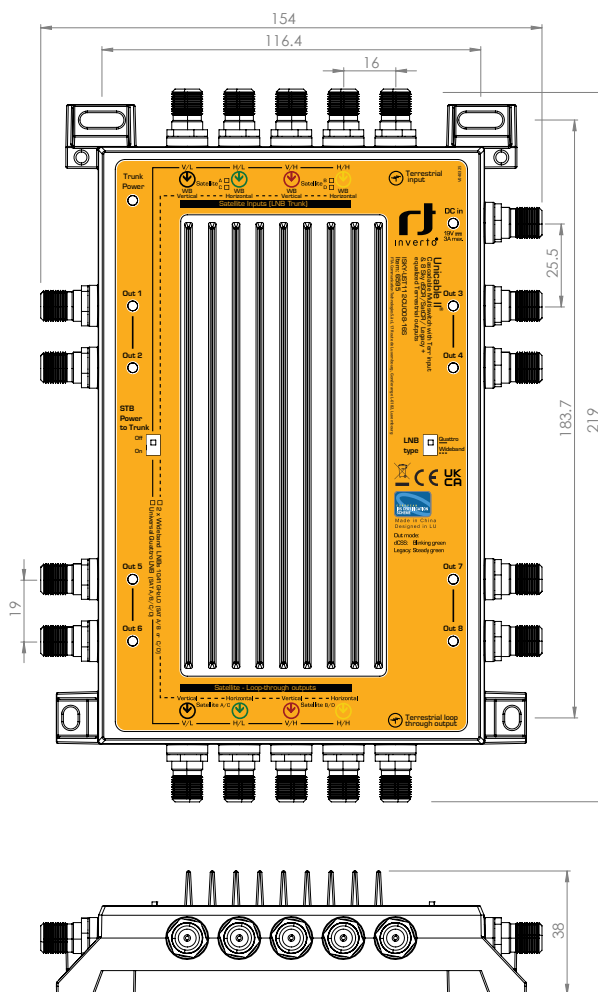
- Solid green = Legacy mode (e.g. Sky+ STB).
- Blinking green = dSCR or SatCR mode (e.g. Sky Q or Sky+ HD STBs).
- Off = no voltage detected on the port (only terrestrial signal available on the port)

All the eight STB output ports combine a unity-gain equalized Terrestrial input signal.

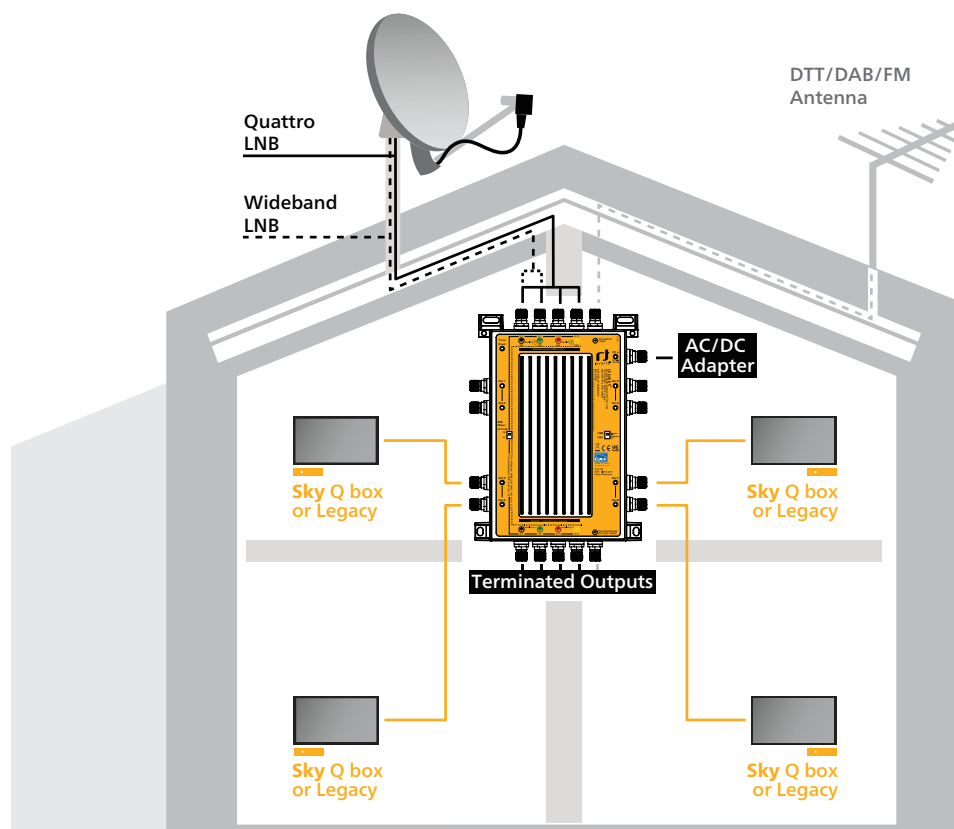
For Indoor and outdoor (IP54) installations



- 2 SAT
- 16 User Bands
- sky dSCR
- Terrestrial
- STB Powered Trunk
- 8 x Sky Q/Legacy



Typical single household installation



Typical MDU/IRS building installation with two Wideband LNBS receiving two satellites



*If Sky service required to be distributed, it should be connected over the Sat A position

Technical data

Frequency range	Satellite		Quattro LNB: 950 MHz ~ 2150MHz Wideband LNB: 290 MHz ~ 2340MHz (LO=10.41 GHz) 174-230 MHz 470-790 MHz
	Terrestrial	VHF UHF	
Inputs (F-type connectors)			4x Satellite IF inputs: From 1x Quattro LNB or from up to 2x Wideband LNBs 1 x DTT/DAB input from Terrestrial antenna
Trunk outputs (F-type connectors) Tap output ports (F-type connectors)			4 Satellite IF + 1 TERR 8 x Sky dSCR (16 UBs) / SatCR / Legacy auto-detect ports with combined Terrestrial signal
Trunk DC pass	Satellite		Yes
	Terrestrial		No
Trunk max through-loss	Satellite		6 dB max.
	Terrestrial		0 ±1 dB gain
Gain (Tap)	Satellite	Out of AGC	>25 dB
	Terrestrial	AGC	-25 dB to +27 dB -2 ~ +3
TERR IIP3			10 dBm min.
Max Input signal level (aggregated)	Satellite		0dBm (108dBuV)
	Terrestrial		-20dBm (88dBuV)
Output power level (AGC)	Satellite	dCSS/Unicable - UB power Legacy - average TP power	-25 dBm (83 dBuV) ±2 dB -25 dBm (83 dBuV) ±4 dB
Output level variation (input signal: single carrier at start/mid/ end band freq @-20dBm)	Satellite	dSCR/Unicable Legacy Trunk	2 dB max. 10 dB max. 4 dB max. 4 dB max.
	Terrestrial		4 dB max.
Input power dynamic range (aggregated)	Satellite		-34 dBm to -4 dBm (74 dBuV to 104 dBuV)
Return loss	Satellite Trunk ports Terrestrial Trunk ports Tap output ports	Satellite Terrestrial	>10 dB >8 dB >8 dB >8 dB
Isolation	Trunk port to port Trunk port to Tap port		>30 dB >26 dB
Integrated phase noise			1.5 degrees max.
Control and protocols			Sky dSCR, SatCR, DiSEqC 1.x/2.0 EN50949/EN50607 13/18VDC + 0/22kHz Legacy/dSCR auto switching
User bands per port dSCR/SatCR/Legacy mode indication Input/Output impedance			16 LED 75 ohm
Power supply	via DC in / SAT Trunk via Tap ports		19 VDC 13/18 VDC Yes On/Off switch 500mA max @ 18VDC
Power from DC-in to Trunk Power from STB ports to Trunk LNB power supply			Output port: 300mA (12 UBs) / 365mA (32UBs) max. @11-20V DC, (supplied by the connected STB) DC in / Trunk port: 100mA max. @18V DC (no LNB load)
Power consumption			DC-in / Trunk / STB LEDs: >11.5V Green <11.5V Red
Power indication			Yes
Earth terminals			Yes
Operating temperature			-20°C to +50°C
IP			IP54
Product dimensions (H x W x D)			21.9 x 15.4 x 3.8cm
Weight			628 g

User band (channel) frequencies:

Sky UK (dSCR) User Band

3 : 1680MHz	19 : 1530MHz
9 : 1280MHz	20 : 1580MHz
11 : 1380MHz	21 : 1630MHz
14 : 1480MHz	22 : 1730MHz
15 : 980MHz	23 : 1780MHz
16 : 1030MHz	24 : 1830MHz
17 : 1080MHz	25 : 1880MHz
18 : 1130MHz	26 : 1930MHz

EN50494/EN50607 User Bands

1 : 1210MHz	EN50494	9 : 1340MHz	EN50607
2 : 1420MHz		10 : 1485MHz	
3 : 1680MHz		11 : 1550MHz	
4 : 2040MHz		12 : 1615MHz	
5 : 985MHz	EN50607	13 : 1745MHz	
6 : 1050MHz		14 : 1810MHz	
7 : 1115MHz		15 : 1875MHz	
8 : 1275MHz		16 : 1940MHz	

User band (channel) bandwidth	46 MHz
User band (channel) gain ripple	3 dB max.

Logistical info

Packaging dimensions (h x w x d)	234 x 158 x 42 mm
Packaging weight	0.717 Kg
Quantity per carton	10
Carton dimensions (h x w x d)	335 x 250 x 238 mm
Carton weight	7.6 Kg
Quantity per pallet	960

Optional accessories (sold separately):

■ Power Inserter		
5958	Unicable II® Power Inserter, 5-2400MHz	IDLU-PINS03-00000-OBT
■ 19W Power supply unit		
5638	19W Power Supply adapter for Unicable II®/ Unifiber™ (UK plug)	IDLU-ADPT01-19WOO-UPM
■ 65 W power supply unit		
5581	65W Power Supply adapter for Unicable II® multiswitches (UK plug)	IDLU-ADPT04-19342-UPM
■ 65 W power supply unit		
6699	65W Power Supply adapter for Unicable II® multiswitches (UK plug)	IDLU-ADPT05-19342-UPM