

# Unicable II®

**Cascadable switch with Terrestrial input and 8 Sky dSCR/SatCR/Legacy+equalized Terrestrial outputs**  
**ISKY-UST111-CU080-16P**

**Item: 6099**



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.

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.

Optional accessories (sold separately):

5958 Unicable II® Power Inserter, 5-2400MHz

5638 19W Power Supply adapter for Unicable II® / Unifiber™ (UK plug)

5581 65W Power Supply adapter for Unicable II® multiswitches (UK plug)

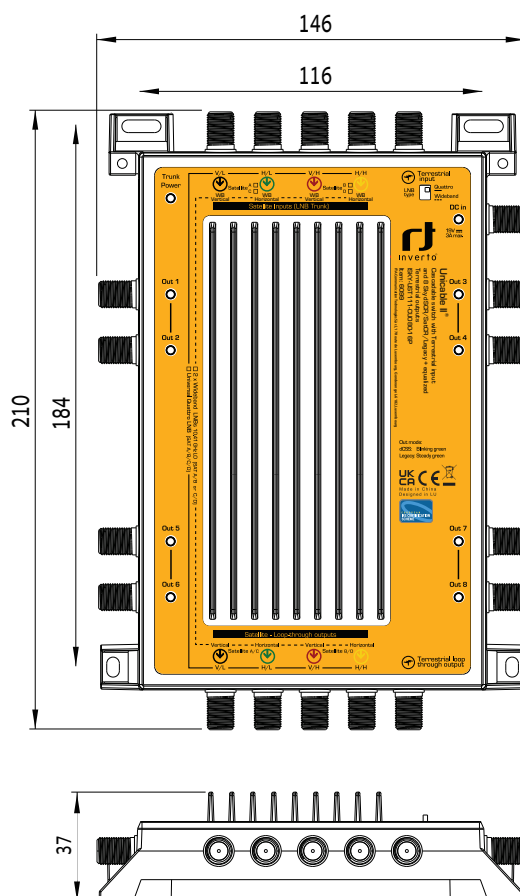
IDLU-PINS03-00000-OBT

IDLU-ADPT01-19WOO-UPM

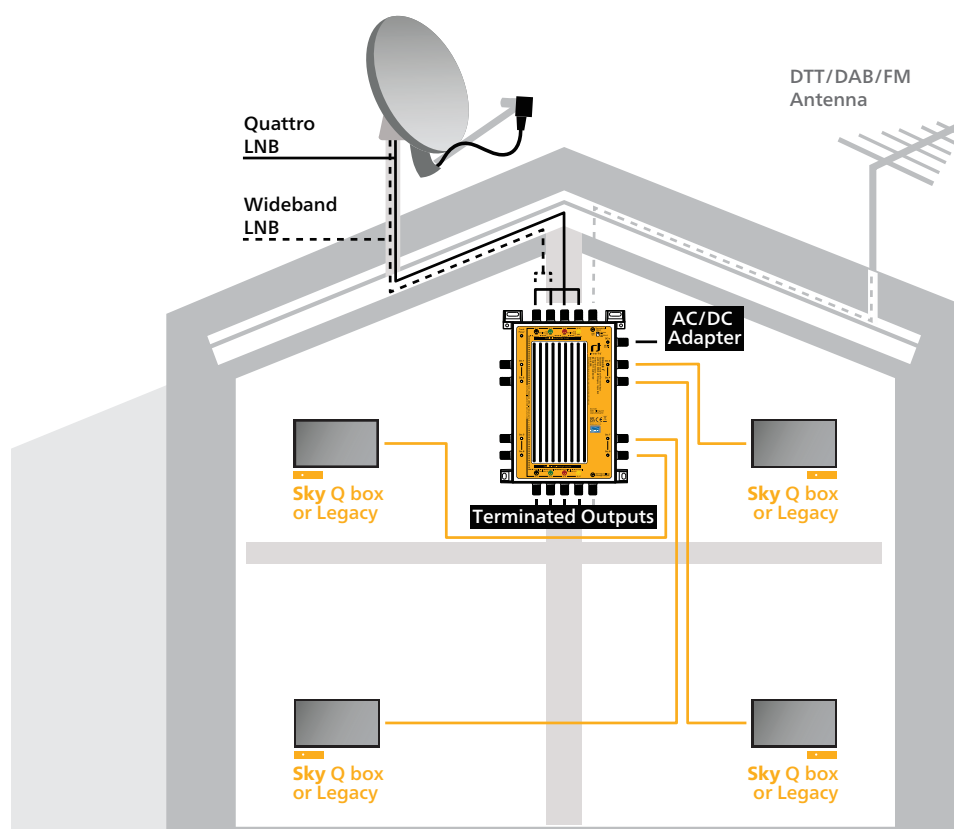
IDLU-ADPT04-19342-UPM

For Indoor and outdoor (IP54) installations





## Typical single household installation





## Technical data

Frequency range	Satellite		Quattro LNB: 950 MHz ~ 2150MHz Wideband LNB: 290 MHz ~ 2350MHz (LO=10.41 GHz)
	Terrestrial	VHF UHF	174-230 MHz 470-790 MHz
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 Terrestrial		Yes No
Trunk max through-loss	Satellite Terrestrial		4 dB max. 0 ±1 dB gain
Gain (Tap)	Satellite Terrestrial	Out of AGC AGC	>25 dB -25 dB to +27 dB 0 ~ 5 dB
Max Input signal level (aggregated)	Satellite Terrestrial		0dBm (108dBuV) -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 Terrestrial	dSCR/Unicable Legacy	<2 dB <4 dB per frequency across all ports <4 dB full band per port
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 >6 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 500mA max @ 18VDC
Power from DC-in to Trunk LNB power supply			
Power consumption			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 indication Earth terminals			LED Yes
Operating temperature			-20°C to +50°C
IP			IP54
Product dimensions (H x W x D)			21 x 14.6 x 3.7cm
Weight			550

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	9 : 1340MHz	EN50494	EN50607
2 : 1420MHz	10 : 1485MHz		
3 : 1680MHz	11 : 1550MHz		
4 : 2040MHz	12 : 1615MHz		
5 : 985MHz	13 : 1745MHz	EN50607	
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)	21.3 cm x 16.2 cm x 3.9 cm
Packaging weight	0.7 Kg
Quantity per carton	10
Carton dimensions (h x w x d)	34.4 cm x 22.8 cm x 21.8 cm
Carton weight	7 Kg
Quantity per pallet	400

#### 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



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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