



## Unicable II Cascadable switch with Terrestrial input and 4x Sky dSCR/SatCR/Legacy+Terrestrial outputs

Model: ISKY-UST110-CUO40-16P

Item: 5412



The Multiswitch unit connects to a Quattro LNB and offers a Terrestrial input port to connect a terrestrial antenna for reception of UHF/DAB/radio broadcasts. The terrestrial signal can be amplified through a dedicated ON/OFF switch and is combined over each of the 4 output ports.

The Multiswitch unit can be powered through a DC input port, any of the trunk output lines or from the STB output ports (typically using a Sky power inserter device). In typical cascaded MDU installations, the DC voltage supplied over the DC in or trunk output lines is passed through to the trunk input lines in order to power the LNB and the 'STB DC pass to LNB trunk' switch must be set to OFF.

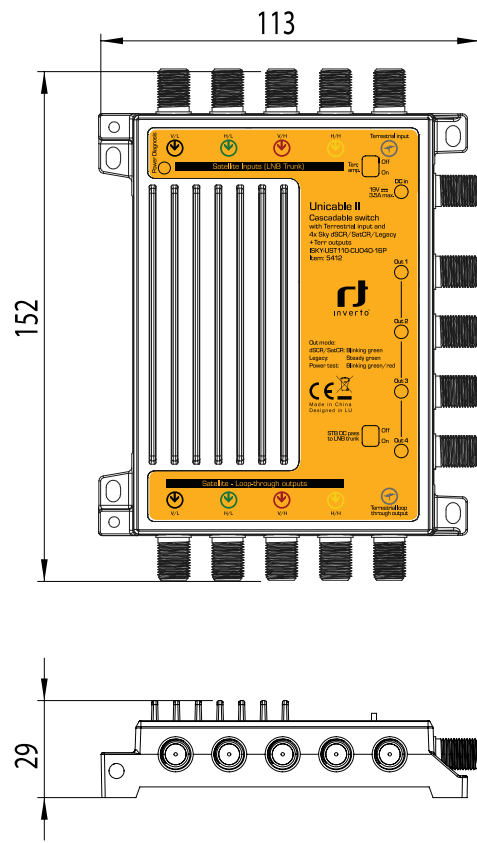
To help the installer ensure at the time of installation that the unit's power supply is sufficient to support a full load in the future i.e. 4x SkyQ STBs, the Multiswitch features a special power diagnosis test mode that is triggered automatically upon unit startup. During this 15 second test, the Multiswitch will operate in full load and will light the power-diagnosis led in green if the unit is supplied with sufficient power or in amber if not.

A status led, located next to each output port, indicates the operating mode of the port (Legacy=solid green, Sky dSCR=blinking green, Power diagnosis=blinking red/green).

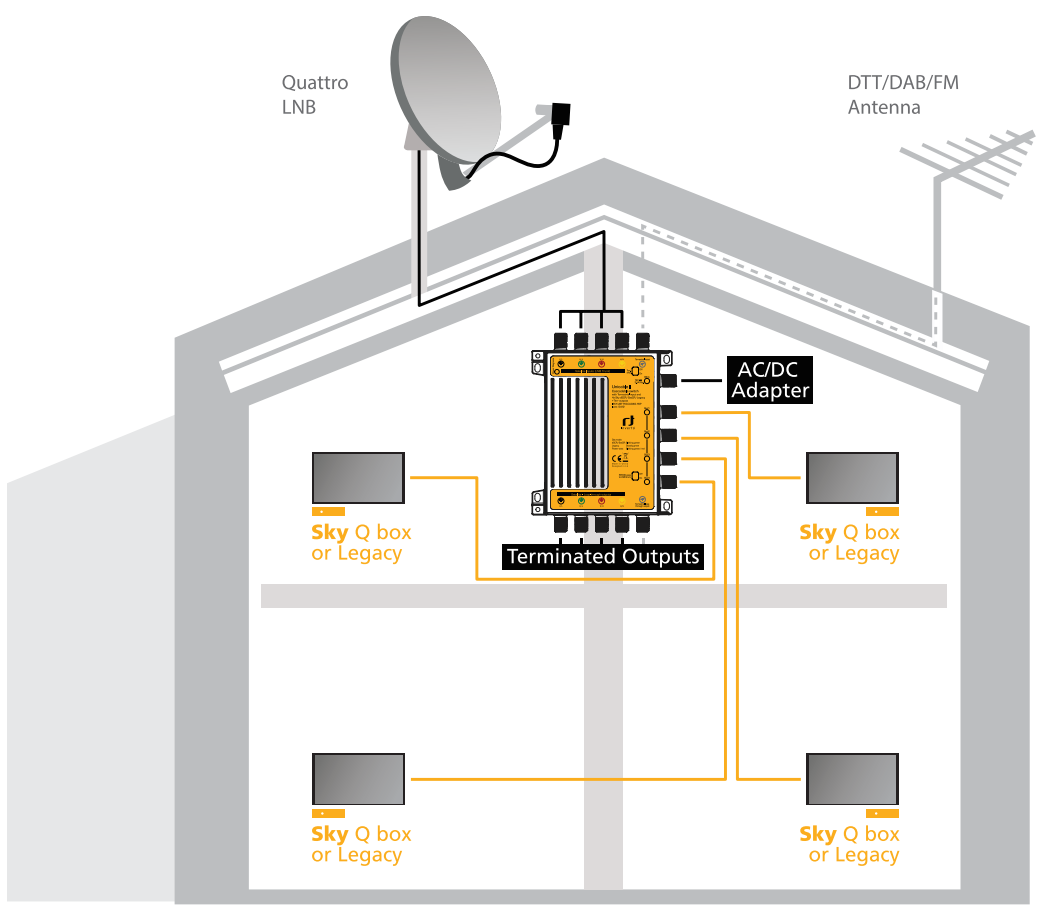
Optional accessories (sold separately):

- MDU power supply unit, supplying up to 4 units + LNB (19V, 3.5A) - Item 5417 IDLU-ADPT01-19V3AO-OPP
- Power Inserter including a single unit power supply (19V, 0.94A) - Item 5380 IDLU-PINS02-OOOOO-OPP

For Indoor and outdoor (IP54) installations.



**Typical single household installation**



# Typical cascaded MDU/building installation



## Technical Specifications

Inputs	4 x Satellite IF inputs from Quattro LNB 1 x DTT/DAB/FM input from Terrestrial antenna
Outputs	4 x loopthrough satellite IF outputs * 1 x loopthrough terrestrial output 4 x Sky dSCR (16UBs) / SatCR / Legacy auto-detect ports with combined Terrestrial signal
Control Protocol	Sky dSCR (Sky Q), SatCR (Sky+), Legacy 13/18V + 0/22kHz, DiSEqC1.x/DiSEqC2.0
Inputs frequency range: Satellite Terrestrial	950 ~ 2150 MHz 40 ~ 840 MHz
Loop-through loss/gain: Satellite Terrestrial	4dB max. (loss) 5dB max. (loss) [Amplification=OFF] +12dB min. (gain) [Amplification=ON]
Conversion gain: Satellite (Trunk to Tap, outside of AGC) Terrestrial (Terrestrial in to Tap)	25dB min -20dB [Amplification = OFF] -5 ~ +5dB [Amplification = ON]
Output signal level (AGC controlled)	-25dBm (83dBuV)
Input power range	-50 to -5 dBm
User band (Channel) bandwidth	46MHz
User band (Channel) gain ripple	3 dB max.
User band frequencies (Channels)	CH3: 1680MHz CH9: 1280MHz CH11: 1380MHz CH14: 1480MHz CH15: 980MHz CH16: 1030MHz CH17: 1080MHz CH18: 1130MHz CH19: 1530MHz CH20: 1580MHz CH21: 1630MHz CH22: 1730MHz CH23: 1780MHz CH24: 1830MHz CH25: 1880MHz CH26: 1930MHz
RF Isolation:	
Satellite/Satellite IF	25 dB min.
Satellite/Terrestrial	25 dB min.
Satellite Channel/Channel (UBs)	28 dB min.
Integrated phase noise	1.5 degrees max.
Input / Output VSWR	2.5 : 1
Input / Output Impedance	75 Ω (F-Type)
Legacy port switching	V/L=>13V/0kHz , V/H=>13V/22kHz H/L=>18V/0kHz , H/H=>18V/22kHz
LNB power supply	500mA max. @18VDC
DC Power consumption	600~900mA @10~20VDC [max.]
Working Temperature	- 20 ~ + 50 °C
Ingress protection	IP54
Dimensions	151.86 x 110.24 x 26.00(H x W x D) mm

\* Unused ports need to be terminated by 75 Ohm DC-blocked terminators

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. As product specifications may change without notice, always contact Inverto to obtain the latest product specification sheets.

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