

Unicable II®

Cascadable Multiswitch with Terr input & 12 Sky dSCR/
SatCR/ Legacy + equalized Terrestrial outputs
ISKY-UST112-CU012-16S
Item: 6563



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 twelve 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)

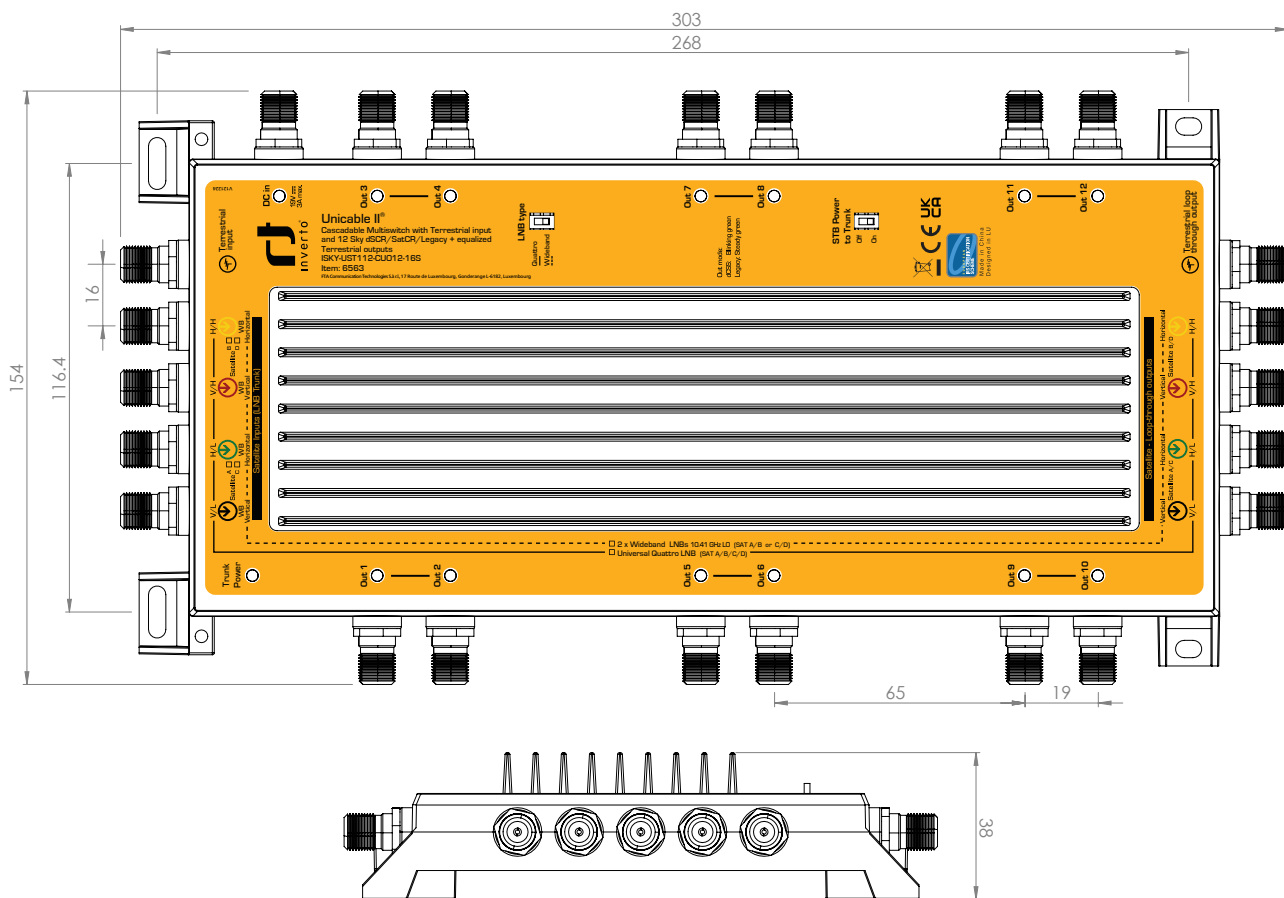
All the twelve STB output ports combine a unity-gain equalized Terrestrial input signal.

For Indoor and outdoor (IP54) installations

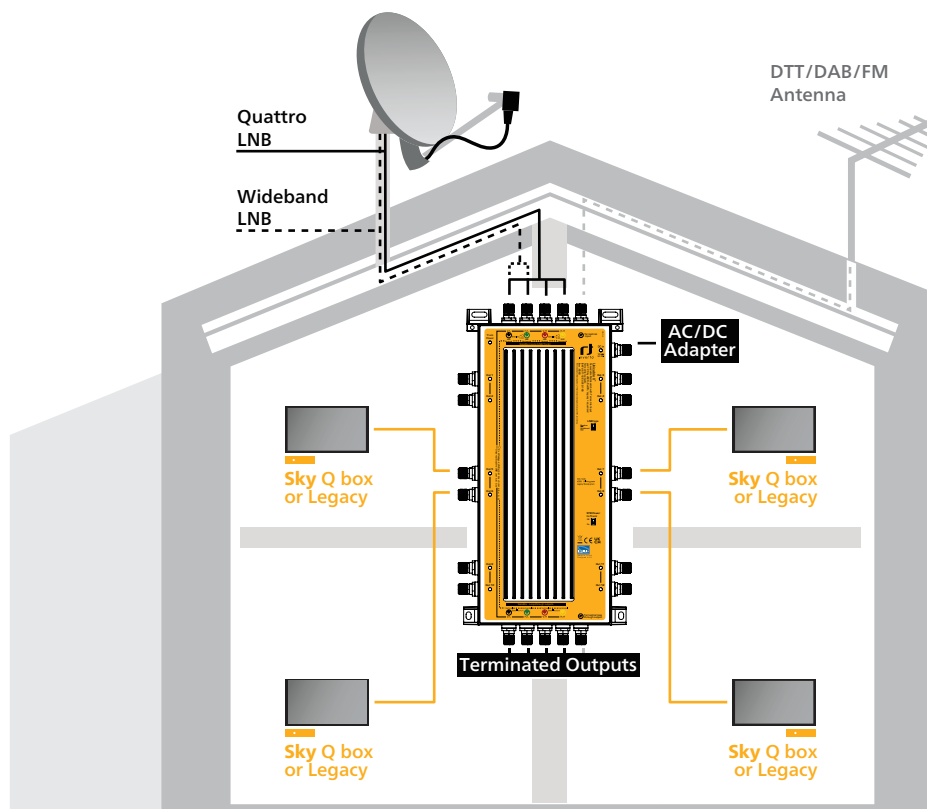


- 2 SAT
- 16 User Bands
- sky dSCR
- Terrestrial
- STB Powered Trunk
- 12x Sky Q/Legacy





Typical single household installation



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



* If Sky service is 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 ~ 2340 MHz (LO=10.41 GHz) 174-230 MHz 470-790 MHz |
| Inputs (F-type connectors) | Terrestrial | VHF UHF | 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 12 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 | | 6 dB max. 0 ±1 dB gain |
| Gain (Tap) | Satellite Terrestrial | Out of AGC AGC | >25 dB -25 dB to +27 dB -2 ~ +3 dB |
| TERR IIP3 | | | 10dBm min. |
| 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 Trunk | <2 dB <10 dB 4 dB max. <4 dB |
| Input power dynamic range (aggregated) | Satellite | | -32 dBm to -4 dBm (76 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 | | | |
| 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 | | | DC-in / Trunk / STB LEDs: >11.5V Green <11.5V Red |
| Earth terminals | | | Yes |
| Operating temperature | | | -20°C to +50°C |
| IP | | | IP54 |
| Product dimensions (H x W x D) | | | 30.3 x 15.4 x 3.8 mm |
| Weight | | | 896 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 | 9 : 1340MHz |
| 2 : 1420MHz | 10 : 1485MHz |
| 3 : 1680MHz | 11 : 1550MHz |
| 4 : 2040MHz | 12 : 1615MHz |
| 5 : 985MHz | 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

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|----------------------------------|--------------------|
| Packaging dimensions (h x w x d) | 318 x 158 x 42 mm |
| Packaging weight | 1.01 Kg |
| Quantity per carton | 15 |
| Carton dimensions (h x w x d) | 490 x 330 x 238 mm |
| Carton weight | 15.86 Kg |
| Quantity per pallet | 720 |

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 |