



Unicable II®

Cascadable switch with Terrestrial input and 12x Unicable II®/Legacy + equalized Terrestrial outputs IDLU-UST111-CU012-32P

Item: 6208

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 twelve STB output ports supports either Legacy or Unicable mode (auto-detect). The Unicable mode is compatible with either SatCR (Unicable, EN50494) or dCSS (Unicable II, EN50607) STB models and delivers 16 User Bands. The ports feature a status LED indicating their operational mode:

- Solid green = Legacy mode
- Blinking green = dCSS or SatCR mode
- Off = no voltage detected on the port (only terrestrial signal available on the port when the unit is powered)

All the twelve STB output ports combine the Terrestrial input with unity gain.

The unit configuration and RF parameters can be programmed with Inverto's SatPal Controller device*

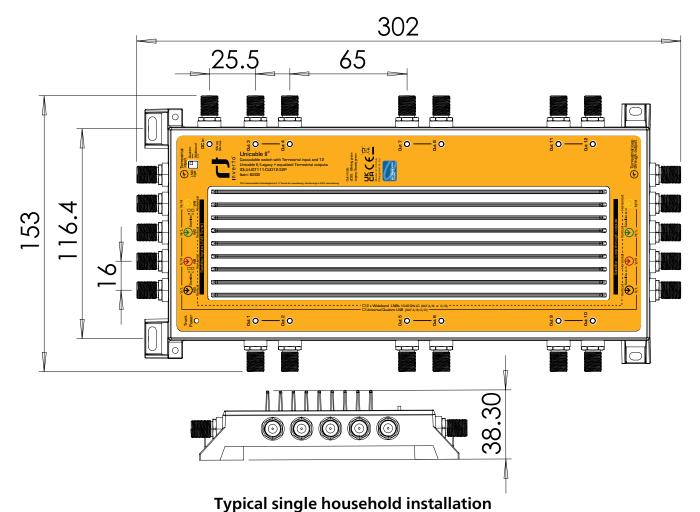
For Indoor and outdoor (IP54) installations.

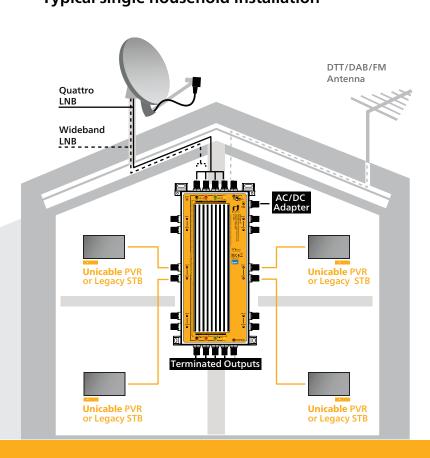




^{*} The SatPal Controller device is not included and is sold separately.









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



Optional accessories (sold separately):

■ 5958 Unicable II® Power Inserter, 5-2400MHz
 IDLU-PINS03-OOOOO-OBT
 ■ 5639 19W Power Supply adapter for Unicable II® / Unifiber™ (EU plug)
 IDLU-ADPT01-19WOO-EPM

■ 5582 65W Power Supply adapter for Unicable II® multiswitches (EU plug) IDLU-ADPT04-19342-EPM

■ 5415 SatPal™ Controller IDLU-SPAL03-OOOBT-OPP



Technical data

Frequency range: satellite Quattro LNB: 950 MHz ~ 2150MHz

Wideband LNB: 290 MHz ~ 2350MHz (LO=10.40 GHz)

VHF 174-230 MHz Frequency range: terrestrial UHF 470-790 MHz

Inputs 4x Satellite IF inputs:

From 1x Quattro LNB or From up to 2x Wideband LNBs

1 x DTT/DAB input from Terrestrial antenna

Outputs

4 Satellite IF + 1 TERR 12 x dCSS (16 UBs) / SatCR / Legacy

auto-detect ports with combined Terrestrial signal

-32 dBm to -4 dBm (76 dBuV to 104 dBuV) - Aggregated dCSS/Unicable - UB power: -25 dBm (83 dBuV) ±2 dB Legacy - average TP power: -25 dBm (83 dBuV) ±4 dB Input power range Output signal level (AGC)

RF isolation: satellite/satellite (input) 30 dB min. RF isolation: satellite/terrestrial (input) 30 dB min. RF isolation: satellite ch/ch (UBs, output) 30 dB min.

Loop-through loss: satellite Loop-through loss: terrestrial 5.5 dB max. 0 ±1 dB gain

Gain: Unicable II™ (dCSS) output (out of AGC) Gain: terrestrial signal >25 dB

 $0 \sim 5 dB$ 1.5 degrees max. Integrated phase noise

EN50494 (Unicable, SatCR), EN50607 (Unicable II, dCSS), DiSEqC1.0/2.0, Control protocols 13 V/18 V + 0 kHz/22 kHz

V/L => 13 V/0 kHz , V/H => 13 V/22 kHz H/L => 18 V/0 kHz , H/H => 18 V/22 kHz Legacy port switching

Input/Output impedance Input/Output VSWR 75 Ω (F-type)

2.5 : 1

LNB power supply 500 mA max. @ 18 VDC Power consumption

Output ports (16 active UBs, supplied by the connected STB): 365mA max. @11-20V DC DC in / trunk port: 100mA max. @18V DC (no LNB load) $^{-20}\,^\circ\text{C} \sim +50\,^\circ\text{C}$

IP54

30.2 cm x 15.3 cm x 3.8 cm

765 g

Unicable II™ (dCSS) port specifications User band (channel) bandwidth User band (channel) gain ripple User band (channel) frequencies

Product dimensions (H x W x D)

Working temperature IP protection

Weight

46 MHz, programmable 10 MHz ~ 80 MHz 3 dB max.

3 dB max.

Default Unicable II™ dynamic user bands per output port:

CH1: 1210 MHz EN50607 + EN50494 (dCSS + SatCR)

CH2: 1420 MHz EN50607 + EN50494 (dCSS + SatCR)

CH3: 1680 MHz EN50607 + EN50494 (dCSS + SatCR)

CH4: 2040 MHz EN50607 + EN50494 (dCSS + SatCR)

CH5: 985 MHz EN50607 + EN50494 (dCSS + SatCR)

CH6: 1050 MHz EN50607 + EN50494 (dCSS + SatCR)

CH7: 1115 MHz EN50607 + EN50494 (dCSS + SatCR)

CH8: 1275 MHz EN50607 + EN50494 (dCSS + SatCR)

CH9: 1340 MHz EN50607 (dCSS)

CH10: 1485 MHz EN50607 (dCSS)

CH11: 1550 MHz EN50607 (dCSS)

CH12: 1615 MHz EN50607 (dCSS)

CH13: 1745 MHz EN50607 (dCSS)

CH14: 1810 MHz EN50607 (dCSS)

CH15: 1875 MHz EN50607 (dCSS)

CH16: 1940 MHz EN50607 (dCSS)

Quantity per pallet

Logistical infoPackaging dimensions (h x w x d)
Packaging weight Quantity per carton Carton dimensions (h x w x d) Carton weight

31.5 cm x 15.7 cm x 42cm

0.93Kg 15

49 x 33 x 23.8 cm

14.88kg

240pcs

