



Unicable II[™] Cascadable switch with Terrestrial input and 4x dCSS /SCR / Legacy + Terrestrial outputs

Model: IDLU-UST110-CUO4O-32P Item: 5413









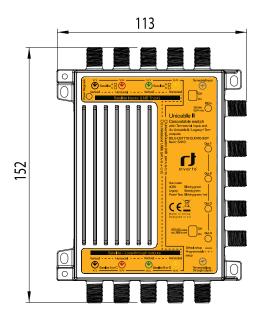


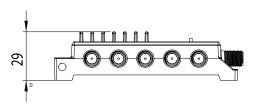
The IDLU-UST110-CUO4O-32P is a small size cascadable Unicable IITM Multiswitch with 4 auto-detect output ports, each supporting Unicable IITM or Legacy functionality. The Multiswitch unit can be connected to a single satellite Quattro LNB (default configuration) or to two Wideband LNBs to support reception of 2 satellites. A Terrestrial input allows to connect a terrestrial antenna for reception of UHF/VHF/DAB/radio broadcasts. The terrestrial signal can be amplified (On/Off switch) and is combined over each of the 4 output ports. By default, each output port functions in Legacy-Mode and can be controlled through 13 V/18 V + 0 kHz/22 kHz signals or DiSEqC 1.0/2.0 commands. The port switches to Unicable IITM mode automatically upon receiving a EN 50494/EN 50607 command and provides 16x dynamic User Bands (refer to the product technical specifications for the default settings of the 16 user bands).

The Multiswitch unit can be powered through a "DC in" port, any of the "Loop-through" ports or from the STB output ports (typically through a power inserter device). In typical cascaded MDU installations, the DC voltage supplied over the "DC in" or "Loop-through" output lines is passed through to the trunk input lines to power the LNB(s), 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, the Multiswitch features a special power diagnosis test mode that is triggered automatically upon unit start-up. During this 15 second test, the Multiswitch will operate in full load and will light a power-diagnosis LED in green if the unit is supplied with sufficient power or in amber if not.

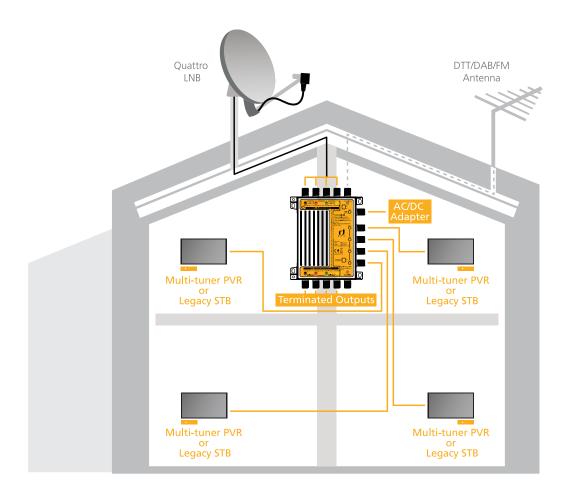
A status LED, located next to each of the output ports, indicates the operating mode of the port: Legacy = solid green, Unicable II^{TM} = blinking green, power diagnosis = blinking red/green.





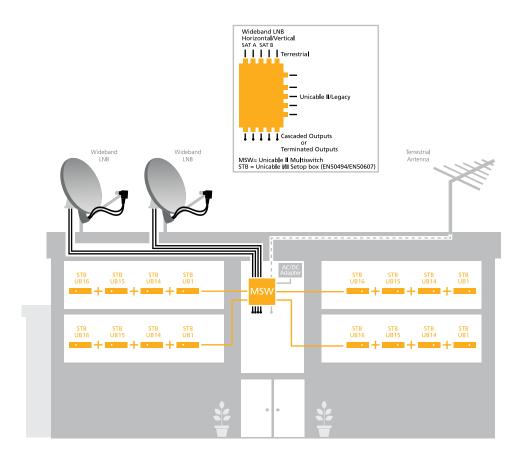


Typical single household intallation

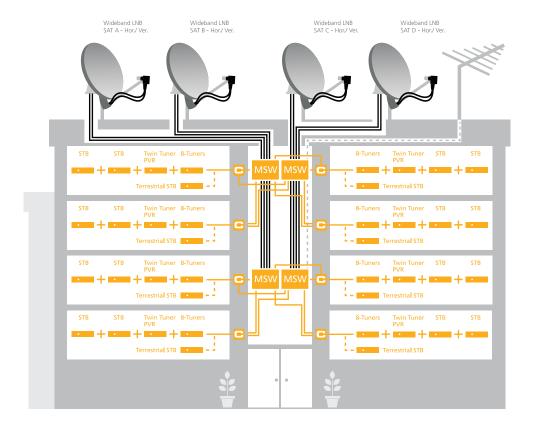




Reception of 2 satellites, each output port provides 16x dynamic User Bands allowing to access any transponder of the 2 satellites



Reception of 4 satellites, each output port provides 16x dynamic User Bands allowing to access any transponder of the 4 satellites





Technical Specifications

Frequency range: satellite Frequency range: terrestrial

Inputs

Outputs

Input/Output impedance Input power range

RF isolation: satellite/satellite (input) RF isolation: satellite/terretsrial (input) RF isolation: satellite ch/ch (UBs, output)

Loop-through loss: satellite Loop-through loss: terrestrial

Integrated phase noise Output signal level (AGC)

Gain: Unicable II™ (dCSS) output (out of AGC)

Gain: terrestrial signal

Control protocols

Legacy port switching

LNB power supply Power consumption Working temperature IP protection Product dimensions (H x W x D) Weight

Unicable II™ (dCSS) port specifications

User band (channel) bandwidth User band (channel) gain ripple User band (channel) frequencies

Logistical info

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

Quattro LNB: 950 MHz \sim 2150 MHz (Standard) Wideband LNB: 300 MHz \sim 2350 MHz " 47 MHz \sim 862 MHz

4x IF inputs:

- From 1x Quattro LNB (default) - From 2x Wideband LNBs

1 x UHF/VHF input from Terrestrial antenna

4x Loopthrough satellite IF outputs*
1x Loopthrough terrestrial output

4x auto-detect Unicable II / Legacy output ports with combined terrestrial signal.

Default behavior: Legacy mode on power up, auto-switch to Unicable II™ dynamic mode upon receiving an EN50494/EN50607 command.

75 Ω (F-type) -50 dBm ~ -5 dBm 25 dB min. 25 dB min. 28 dB min. 4 dB max. (loss) 8 dB max. (loss) [amplification=OFF] +12 dB min. (gain) [amplification=ON] 1.5° max. -25 dBm (83 dBuV) 25 dB min. -27 dB [amplification = OFF] $-5 dB \sim +5 dB [amplification = ON]$ EN50494 (SatCR), EN50607 (dCSS), DiSEqC1.0/2.0, 13 V/18 V + 0 kHz/22 kHz $V/L \Rightarrow 13 V/0 kHz$, $V/H \Rightarrow 13 V/22 kHz$ H/L => 18 V/0 kHz, H/H => 18 V/22 kHz500 mA max. @ 18 VDC 600 mA ~ 900 mA @ 10 VDC ~ 20 VDC max. -20 °C ~ +50 °C IP54 15.2 cm x 11 cm x 2.6 cm 280 g

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

Default Unicable II™ dynamic user bands per output port:

CH1: 1210MHz EN50607+EN50494 (dCSS+SatCR) CH2: 1420MHz EN50607+EN50494 (dCSS+SatCR) CH3: 1680MHz EN50607+EN50494 (dCSS+SatCR) CH4: 2040MHz EN50607+EN50494 (dCSS+SatCR) CH5: 985MHz EN50607+EN50494 (dCSS+SatCR) CH6: 1050MHz EN50607+EN50494 (dCSS+SatCR) CH7: 1115MHz EN50607+EN50494 (dCSS+SatCR) CH8: 1275MHz EN50607+EN50494 (dCSS+SatCR) CH8: 1340MHz EN50607 (dCSS)

CH9: 1340MHz EN50607 (dCSS) CH10: 1485MHz EN50607 (dCSS) CH11: 1550MHz EN50607 (dCSS) CH12: 1615MHz EN50607 (dCSS) CH13: 1745MHz EN50607 (dCSS) CH14: 1810MHz EN50607 (dCSS) CH15: 1875MHz EN50607 (dCSS) CH16: 1940MHz EN50607 (dCSS)

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

15.5 x 11.8 x 3.5 cm 0.3 Kg 30 48.2 x 24.9 x 50 cm 10.71 kg 840



Optional accessories (sold separately):

■ 65 W power s	supply unit, supplying up to 4 units + LNB(s)	
5582	65W Power Supply adapter for Unicable II™ multiswitches (EU plug)	IDLU-ADPT04-19342-EPM
5581	65W Power Supply adapter for Unicable II™ multiswitches (UK plug)	IDLU-ADPT04-19342-UPM
5423	65W Power Supply adapter for Unicable II™ multiswitches (EU plug)	IDLU-ADPT03-19342-OPP
5422	65W Power Supply adapter for Unicable II™ multiswitches (UK plug)	IDLU-ADPT02-19342-OPP
■ 18 W wall power supply, supplying up to 2 units + LNB(s)		
5431	18W Power Supply adapter for Unicable II™ multiswitches (UK plug)	IDLU-ADPT01-OOOUK-OPP
5346	18W Power Supply adapter for Unicable II™ multiswitches (EU plug)	IDLU-ADPT01-00000-OPP
■ Power Inserter		
5344	Unicable II™ Power Inserter, 5-2400MHz	IDLU-PINS01-00000-OPP
■ Equipment fo	or programming the multiswitch	
5415	SatPal™ Controller	IDLU-SPAL03-OOOBT-OPP
5393	Unicable II™ programmer	IDLU-PROG02-OOOOO-OPN

