Data sheet

OFFEL
Sistemi di ricezione TV e SAT

dCSS multiswitch

1 dCSS + 1 Legacy TV-SAT tap outputs

art. 15-700
MSW52 dCSS 32 porte

SAT
DTT
INDOOR
SCR dCSS
CONN. F
CE

Ideal for the distribution of SAT signals, with mixed TV signals.
Equipped with one Legacy tap output and one dCSS tap output.

The dCSS tap output can be used in two different modes:

- Dynamic mode: allows to distribute a potentially unlimited number of transponders up to 32 users, independent of each other;
- Static mode: 32 frequencies of band 1IF are assigned to a maximum of 32 transponders. The selected transponders can be distributed to a potentially unlimited number of users.

The terrestrial signal is in passive mixing to avoid any problems caused by intermodulation.

The remote power supply from the multiswitch to the LNB is enabled on all the connectors.
The inserting device and the power supply unit are included and they have to be placed between the multiswitch and the decoder(s).

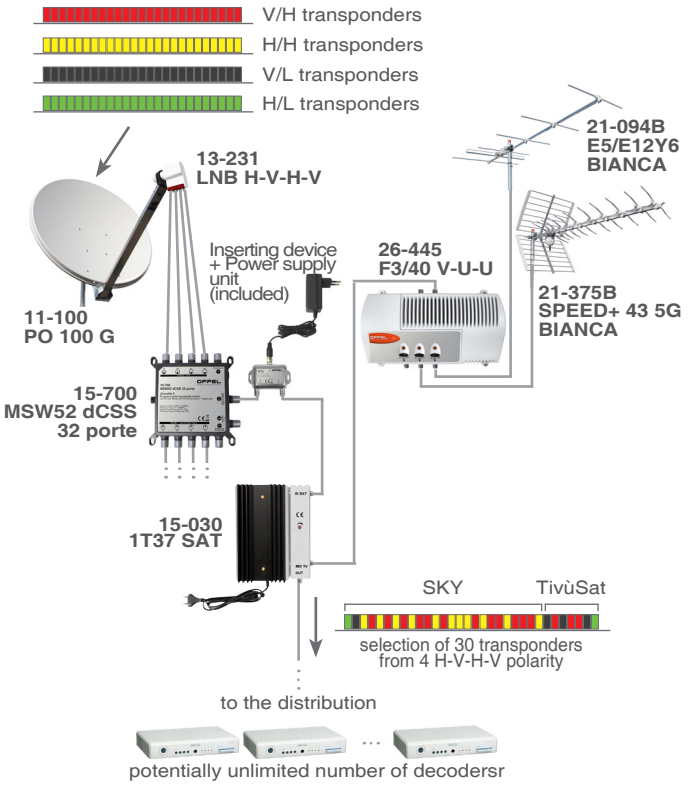
The default programming mode is static mode (dynamic mode on request).
It can be reconfigured as required by the Programmer (art. 15-701 P-MSW dCSS, sold separately).

If the multiswitch is used in dynamic mode, connect to the dCSS tap output (Unicable 2) only decoders that support SCR/Sky standard (see frequency configuration table in dynamic mode on page 2).

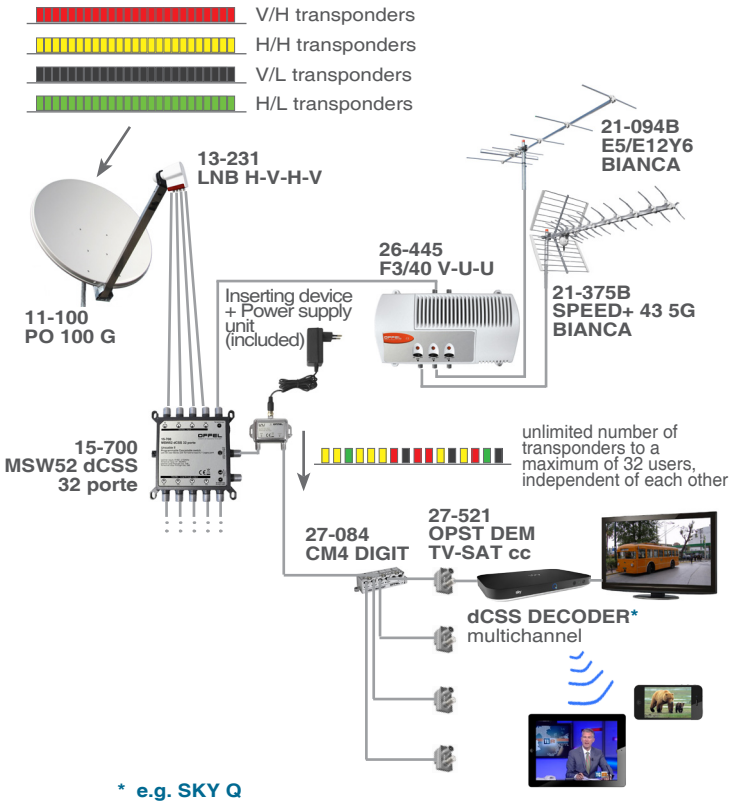
Characteristics

- High density digital channeling
- Equipped with AGC (automatic gain adjustment)
- High isolation between inputs and outputs
- Compatible with all OFFEL multiswitches

Example of application in static mode for the reception of a selection of SKY and TivùSat transponders



Example of application in dynamic mode for the satellite reception for a maximum of 32 users



* e.g. SKY Q

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art. 15-700
MSW52 dCSS 32 porte

Code		15-700
Item		**MSW52 dCSS 32 porte**
No. of SAT inputs		4
No. of TV input		1
No. of SAT outputs		4
No. of TV output		1
No. of TV-SAT Legacy tap output		1
No. of TV-SAT dCSS tap output		1
dCSS tap gain	dB	25 Min.
Legacy tap gain	dB	-1 / 8
TV tap gain	dB	-15 Typ.
SAT Loopthrough Loss	dB	3 Max
TV Loopthrough Loss	dB	3 Max
SAT Return Loss	dB	-15 Typ. -12 Max
TV Return Loss	dB	-15 Typ. -12 Max
Output level (with AGC)	dBµV	82
Max absorbed current @13V	mA	500
Max remote supply current	mA	300
SAT frequencies	MHz	950÷2150
TV frequencies	MHz	40÷862
Max SAT input level	dBµV	93
Min SAT input level	dBµV	59
Inputs isolation	dB	>25
Outputs isolation	dB	>25
Legacy control protocol		13÷18V 0÷22KHz
dCSS control protocol		DiSEqC 1.x/DiSEqC 2.0
Outputs F connectors		screw F-type
Dimensions (LxWxH)	mm	110x21x113
Packaging dimensions (LxWxH)	mm	125x120x75
Packaging weight	Kg	0,46
Fit temperature	°C	-30 ÷ +60
Compliant to		EN 50083-2, EN 60065

Example of dCSS frequency configuration in static mode

Tunable channels in 1IF band		Received transponders		
Channels	**Freq. (MHz)**	**Name**	**Freq. (MHz)**	**Polarity**
Ch. 1	970	TS53	11785	H
Ch. 2	1010	TS56	11843	V
Ch. 3	1050	TS57	11862	H
Ch. 4	1090	TS58	11880	V
Ch. 5	1130	TS59	11900	H
Ch. 6	1170	TS62	11958	V
Ch. 7	1210	TS63	11977	H
Ch. 8	1250	TS64	11996	V
Ch. 9	1290	TS66	12034	V
Ch. 10	1330	TS67	12054	H
Ch. 11	1370	TS69	12092	H
Ch. 12	1410	TS75	12207	H
Ch. 13	1450	TS77	12245	H
Ch. 14	1490	TS82	12341	V
Ch. 15	1530	TS83	12360	H
Ch. 16	1570	TS86	12418	V
Ch. 17	1610	TS88	12466	V
Ch. 18	1650	TS124	10992	V
Ch. 19	1690	TS125	11013	H
Ch. 20	1730	TS52	11766	V
Ch. 21	1770	TS12	11432	V
Ch. 22	1810	TS60	11919	V
Ch. 23	1850	TS10	11393	V
Ch. 24	1890	TS3	11258	H
Ch. 25	1930	TS121	10930	H
Ch. 26	1970	TS157	11642	H
Ch. 27	2010	TS158	11662	V
Ch. 28	2050	TS89	12475	H
Ch. 29	2090	TS93	12576	H
Ch. 30	2130	TS153	11565	H

The transponders list may change depending on the user's needs and/or any provider updates.

Example of dCSS frequency configuration in dynamic mode

Channels	Freq. (MHz)	Standards
Ch. 1	1210	EN50494
Ch. 2	1420	EN50494
Ch. 3	1680	EN50494
Ch. 4	2040	EN50494
Ch. 5	985	EN50607
Ch. 6	1050	EN50607
Ch. 7	1115	EN50607
Ch. 8	1275	EN50607
Ch. 9	1340	EN50607
Ch. 10	1485	EN50607
Ch. 11	1550	EN50607
Ch. 12	1615	EN50607
Ch. 13	1745	EN50607
Ch. 14	1810	EN50607
Ch. 15	1875	EN50607
Ch. 16	1940	EN50607

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