913
MULTISWITCHES
CASCADABLE MULTISWITCH, 9X16 ACTIF


Code : 9130024
Model : MU-641

Description
Multiswitches for 8 and 16 polarities and terrestrial TV with 8 or 16 outputs, for installations in cascade. The inputs of the 8 polarities and the terrestrial TV are amplified. For 16 polarities, 2 stacked multiswitches of 8 polarities are installed and an external DiSEqC switch (CN-611) for each output. The tap outlets are amplified on the IF satellite band. Power must be supplied from the inputs or the through outputs to feed the built-in line amplifiers. Power must be supplied from each individual receiver to feed the switching and amplification of each tap output. To feed the active multiswitches, the FU-513 power unit is used; it is connected to the AU-620 amplifier of the cascade.

## Applications

Medium-sized to large MATV and SMATV installations. Enables distribution to up to 128 TV outlets in a single line, with power supplied only at the headend of the cascade. By dividing the installation into lines of 128 outlets and distributing the 8 polarities and the terrestrial TV to all the lines, it is possible to reach more than 2,000 outlets. Distribution in cascade from the first multiswitch, with 9 coaxial cables between multiswitches and a single coaxial cable to each TV outlet. For each outlet, the multiswitch distributes a satellite polarity as well as the terrestrial TV. For 8 polarities, the polarity is selected from the individual receiver using the LNB control signals and tone burst or using the DiSEqC signals (version 1.0 or higher); for 16 polarities, polarity is selected using only the DiSEqC signals.

## Characteristics

Return path included from 5 to 65 MHz . Shielded zamak chassis with plastic supports. F-type connectors. Distances of more than 75 m between multiswitch and outlet. Up to 100 terrestrial TV channels.

| CODE |  | 9130023 |  | 9130024 |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| MODEL |  | MU-34 1 |  | MU-64 1 |  |
| Rejection between bands | dB | $\begin{aligned} & >25 \mathrm{TV} / \mathrm{SAT} \\ & >65 \mathrm{SAT} / \mathrm{TV} \end{aligned}$ |  |  |  |
| Isolation between users | dB | $\begin{gathered} >40 \mathrm{TV} \\ >30 \mathrm{SAT} \end{gathered}$ |  |  |  |
| Isolation of switching | dB | >30 SAT/TV |  |  |  |
| Trunk isolation | dB | $\begin{gathered} >30 \mathrm{SAT} / \mathrm{TV} \\ >30 \mathrm{SAT} / \mathrm{SAT} \end{gathered}$ |  |  |  |
| Noise figure |  | $6.2 \pm 2,5$ | $10 \pm 5,0$ | $6.2 \pm 2,5$ | $10 \pm 5,0$ |
| Switching the outputs |  | $\begin{gathered} \text { DiSEqC } 2.0 \\ 13 \mathrm{~V} \ldots / 17 \mathrm{~V}= \\ 0 / 22 \mathrm{KHz} \end{gathered}$ |  |  |  |
| Input return loss | dB | >20 |  |  |  |
| Output return loss | dB | $>15$ |  |  |  |
| Power supply | $\mathrm{V}=$ | $7 \pm 0,5$ |  |  |  |
|  | mA | 590 |  |  |  |
| Comsuption from the receiver | mA | $\begin{gathered} 50 \pm 2,0 \\ (12 . .20 \mathrm{~V}=\ldots \end{gathered}$ |  |  |  |
| Operating temperature close to equipment | ${ }^{\circ} \mathrm{C}$ | -10..+65 |  |  |  |
| Room temperature with/ without fan | ${ }^{\circ} \mathrm{C}$ | $-10 . .+55 /+45$ |  |  |  |
| Protection index |  | IP 30 |  |  |  |
| Units per packing |  | 1 | 9 | 1 | 5 |
| Packing weight | Kg | 0.7 | 6.3 | 1 | 5 |
| Packing dimensions | mm | $245 \times 160 \times 35$ | $312 \times 190 \times 225$ | $245 \times 240 \times 35$ | $312 \times 190 \times 255$ |


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| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| MODEL |  | MU-341 |  |  |  | MU-641 |  |  |  |
| TV system |  | FM-TV / DVB-S / AM-TV / DVB-T |  |  |  |  |  |  |  |
| Connection |  | F female |  |  |  |  |  |  |  |
| Inputs |  | 9 |  |  |  |  |  |  |  |
| Outputs |  | 9 |  |  |  |  |  |  |  |
| Tap outputs |  | 8 |  |  |  | 16 |  |  |  |
| Frequency range | MHz | 5-65 | 86-862 | 950-2 150 | 2150-2500 | 5-65 | 86-862 | 950-2150 | 2150-2500 |
| Tap loss | $\mathrm{dB} \pm \mathrm{TOL}$ | $18 \pm 1,0$ | $11 \pm 2,0$ | - | - | $19 \pm 1,0$ | $11 \pm 2,0$ | - | - |
| Tap gain |  | - | - | $3 \pm 2,0$ | $3 \pm 2,0$ | - | - | $2 \pm 3,0$ | $2 \pm 3,0$ |
| Tap equalization | dB | - | 14 | 11 | - | - | 14 | 13 | - |
| Tap flatness response | dB | $\pm 3$ |  |  |  |  |  |  |  |
| Output level | $\mathrm{dB} \mu \mathrm{V}$ | - |  | $\begin{aligned} & 100 \text { (IMD3-35 dB) } \\ & 90 \text { (IMD2 - } 35 \mathrm{~dB} \text { ) } \end{aligned}$ |  |  |  | $\begin{aligned} & 100(\text { IMD3 }-35 \mathrm{~dB}) \\ & 90(\text { (MD2 }-35 \mathrm{~dB}) \\ & \hline \end{aligned}$ |  |
| Through gain | dB | $9 \pm 1,0$ | $8.5 \pm 0,5$ | $7.5 \pm 0,5$ |  | $8 \pm 1,0$ | $6 \pm 0,5$ | $6.5 \pm 0,5$ |  |
| Through equalization | dB | 1 | 3 | 4.5 | - | 1 | 3 | 4 | - |
| Through flatness response | dB | $\pm 0.25$ |  |  |  |  |  |  |  |
| Through output level | $\mathrm{dB} \mu \mathrm{V}$ | 119 dIN45004B 116 (IMD3-60 dB) 109 (IMD2 - 60 dB ) 106 (СТв - 60 dB) 110 (CSO - 60 dB ) 106 (XMOD - 60 dB) |  | $\begin{aligned} & 114 \text { (IMD3-35dB) } \\ & 110 \text { (IMD2-35 dB) } \end{aligned}$ |  | 116 DIN45004B 113 (MD3. 60 dB ) 106 (IMD2-60 dB) 106 (Ств - 60 dB) 110 (CSO - 60 dB ) 106 (XMOD - 60 dB ) |  | 111 (IMD3-35dB) 107 (IMD2-35dB) |  |

