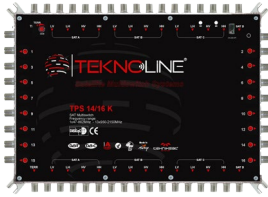
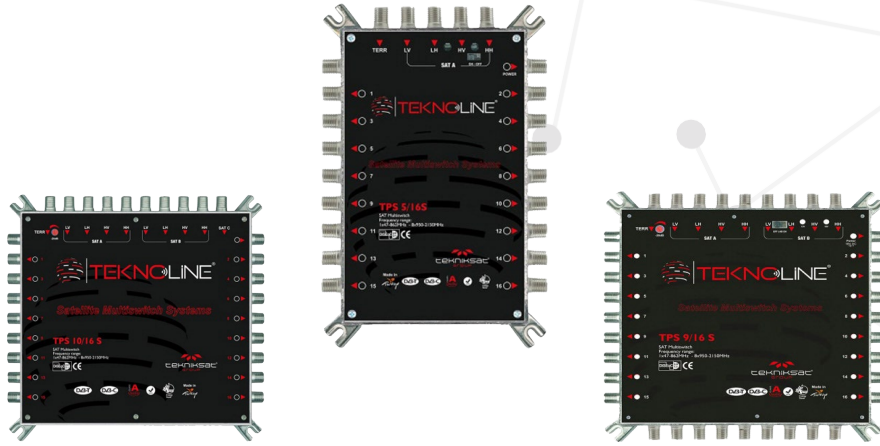


# MULTISWITCH

## Central Satellite Systems



**10** Series

**17** Series

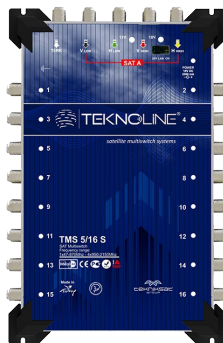


**5** Series



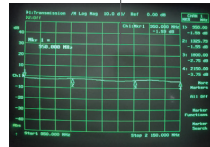
**14** Series

**9** Series

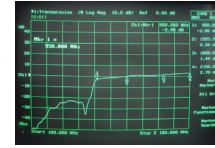


## General Features

- High insulated from each individual subscriber outputs
- High insulated SMPS power supply
- Able to work on low signals due to the high gain on subscriber outputs
- Easy and compact installation
- Low power usage due to new generation smd components
- LNB supply feature 13 - 18V
- Quad & Quattro LNB usage feature
- Up to 100 volt subscriber port protection
- 100 m distribution length per subscriber
- Led subscriber control system
- 1 dB gain between first and last subscriber
- 13-18V 22 KHz circuit



Cascade Output

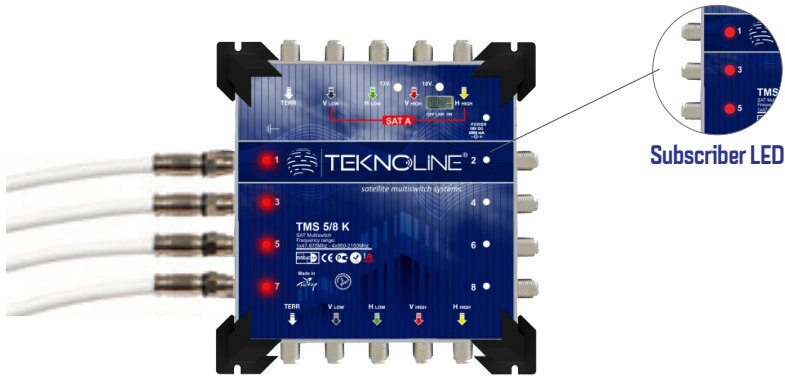


Subscriber Output

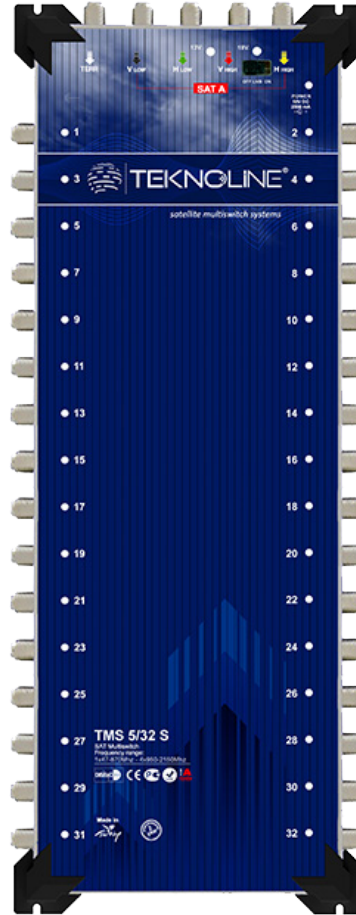
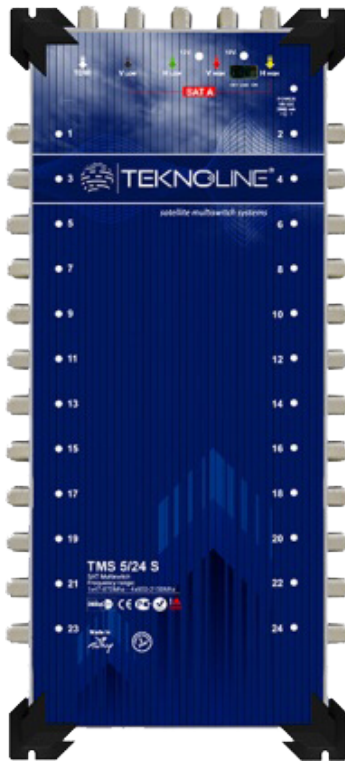


| TECHNICAL SPECIFICATIONS       |                      | TMS 5X8 K                 | TMS 5X8                   | TMS 5X12 K                | TMS 5X12                  | TMS 5X16 K                | TMS 5X16                  |
|--------------------------------|----------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|
| Input                          | SAT/IF<br>Terr.      | 4<br>1                    | 4<br>1                    | 4<br>1                    | 4<br>1                    | 4<br>1                    | 4<br>1                    |
| Subscriber Outputs             |                      | 8                         | 8                         | 12                        | 12                        | 16                        | 16                        |
| Frequency range                | SAT/IF<br>Terr.      | 950-2150Mhz<br>47-870 Mhz | 950-2150Mhz<br>47-870 Mhz | 950-2150Mhz<br>47-870 Mhz | 950-2150Mhz<br>47-870 Mhz | 950-2150Mhz<br>47-870 Mhz | 950-2150Mhz<br>47-870 Mhz |
| Terr Amplifier                 | Terr.                | 23...25dB                 | 23...25dB                 | 23...25dB                 | 23...25dB                 | 23...25dB                 | 23...25dB                 |
| Gain                           | SAT/IF<br>Terr.      | +3dB±1<br>-1dB±1          | +3dB±1<br>-3dB±1          | +3dB±1<br>-3dB±1          | +3dB±1<br>-1dB±1          | +3dB±1<br>-3dB±1          | +3dB±1<br>+1dB±1          |
| Equalizer                      | SAT                  | +4dB±1                    | +4dB±1                    | +4dB±1                    | +4dB±1                    | +4dB±1                    | +4dB±1                    |
| Cascade Loss                   | SAT/IF<br>Terr.      | -2dB±1<br>-5dB±1          | -2dB±1<br>-5dB±1          | -2dB±1<br>-5dB±1          | -3dB±1<br>-5dB±1          | -3dB±1<br>-5dB±1          | -3dB±1<br>-5dB±1          |
| Max. Signal Input              | SAT/IF<br>Terr.      | 98dBµV<br>81dBµV          | 98dBµV<br>81dBµV          | 98dBµV<br>81dBµV          | 98dBµV<br>81dBµV          | 98dBµV<br>81dBµV          | 98dBµV<br>81dBµV          |
| Max. Signal Output             | SAT/IF<br>Terr.      | 102dBµV<br>85dBµV         | 102dBµV<br>85dBµV         | 102dBµV<br>85dBµV         | 102dBµV<br>85dBµV         | 102dBµV<br>85dBµV         | 102dBµV<br>85dBµV         |
| Return Loss                    | Inputs/Outputs       | 10dB/14dB                 | 10dB/14dB                 | 10dB/14dB                 | 10dB/14dB                 | 10dB/14dB                 | 10dB/14dB                 |
| Insulation                     | SAT/SAT<br>SAT/Terr. | >33dB<br>>37dB            | >33dB<br>>37dB            | >33dB<br>>37dB            | >33dB<br>>37dB            | >33dB<br>>37dB            | >33dB<br>>37dB            |
| LNB                            |                      | Quattro                   | Quattro                   | Quattro                   | Quattro                   | Quattro                   | Quattro                   |
| Current on Subscriber Output   |                      | 48mA                      | 48mA                      | 48mA                      | 48mA                      | 48mA                      | 48mA                      |
| Current on System              |                      | 130mA                     | 130mA                     | 130mA                     | 130mA                     | 130mA                     | 130mA                     |
| The current on system with LNB |                      | 630mA                     | 630mA                     | 630mA                     | 630mA                     | 630mA                     | 630mA                     |
| Operating temperature          |                      | -15...+40C°               | -15...+40C°               | -15...+40C°               | -15...+40C°               | -15...+40C°               | -15...+40C°               |
| Dimensions                     |                      | 135x135x45                | 135x135x45                | 135x160x45                | 135x160x45                | 135x190x45                | 135x190x45                |
| Weight                         |                      | 346 gr.                   | 346 gr.                   | 411 gr.                   | 411 gr.                   | 465 gr.                   | 465 gr.                   |

# 5 SERIES MULTISWITCH



Subscriber LED



| TECHNICAL SPECIFICATIONS       |                      | TMS 5X24 K                | TMS 5X24                  | TMS 5X32 K                | TMS 5X32                  |
|--------------------------------|----------------------|---------------------------|---------------------------|---------------------------|---------------------------|
| Input                          | SAT/IF<br>Terr.      | 4<br>1                    | 4<br>1                    | 4<br>1                    | 4<br>1                    |
| Subscriber Outputs             |                      | 24                        | 24                        | 32                        | 32                        |
| Frequency range                | SAT/IF<br>Terr.      | 950-2150Mhz<br>47-870 Mhz | 950-2150Mhz<br>47-870 Mhz | 950-2150Mhz<br>47-870 Mhz | 950-2150Mhz<br>47-870 Mhz |
| Terr. Amplifier                | Terr.                | 23...25dB                 | 23...25dB                 | 23...25dB                 | 23...25dB                 |
| Gain                           | SAT/IF<br>Terr.      | +3dB±1<br>-3dB±1          | +3dB±1<br>+1dB±1          | +2dB±1<br>-8dB±1          | +2dB±1<br>-4dB±1          |
| Equalizer                      | SAT                  | +4dB±1                    | +4dB±1                    | +4dB±1                    | +4dB±1                    |
| Cascade Loss                   | SAT/IF<br>Terr.      | -3dB±1<br>-5dB±1          |                           | -5dB±1<br>-5dB±1          |                           |
| Max. Signal Input              | SAT/IF<br>Terr.      | 98dBµV<br>81dBµV          | 98dBµV<br>81dBµV          | 98dBµV<br>81dBµV          | 98dBµV<br>81dBµV          |
| Max. Signal Output             | SAT/IF<br>Terr.      | 102dBµV<br>85dBµV         | 102dBµV<br>85dBµV         | 102dBµV<br>85dBµV         | 102dBµV<br>85dBµV         |
| Return Loss                    | Inputs/Outputs       | 10dB/14dB                 | 10dB/14dB                 | 10dB/14dB                 | 10dB/14dB                 |
| Insulation                     | SAT/SAT<br>SAT/Terr. | >33dB<br>>37dB            | >33dB<br>>37dB            | >33dB<br>>37dB            | >33dB<br>>37dB            |
| LNB                            |                      | Quattro                   | Quattro                   | Quattro                   | Quattro                   |
| Current on Subscriber Output   |                      | 48mA                      | 48mA                      | 48mA                      | 48mA                      |
| Current on System              |                      | 130mA                     | 130mA                     | 260mA                     | 260mA                     |
| The current on system with LNB |                      | 630mA                     | 630mA                     | 760mA                     | 760mA                     |
| Operating temperature          |                      | -15...+40C°               | -15...+40C°               | -15...+40C°               | -15...+40C°               |
| Dimensions                     |                      | 135x275x45                | 135x275x45                | 135x320x45                | 135x320x45                |
| Weight                         |                      | 625 gr.                   | 625 gr.                   | 723 gr.                   | 723 gr.                   |





# TMS 17/16

4 Satellites 160 Subscribers  
Central Distribution Diagram

