

### MON-2729A



- Dedicated to HFC and FTTB networks
- 1 GHz frequency range
- Easy configuration – electronic adjustment and universal plug-in modules.
- Optical AGC range
- 3-DIGIT LED display
- Full redundancy and segmentation in forward and reverse paths
- Local or remote powering
- Monitoring via SNMP v2c and WWW

**MON 2729A** is one of the most advanced optical nodes and uses microprocessor technology to enable an uninterrupted control and complete remote monitoring of the device operation.

**MON 2729A** is dedicated to traditional HFC and FTTB networks. Thanks to the use of hybrids made by TELKOM-TELMOR, it can achieve the highest levels of output signals while simultaneously reducing power consumption. The unique advantages of the device include:

**"BOOSTER"** – a mode that enables increasing output signal level. Such feature is specifically used in FTTB networks in which MON is the last active device..

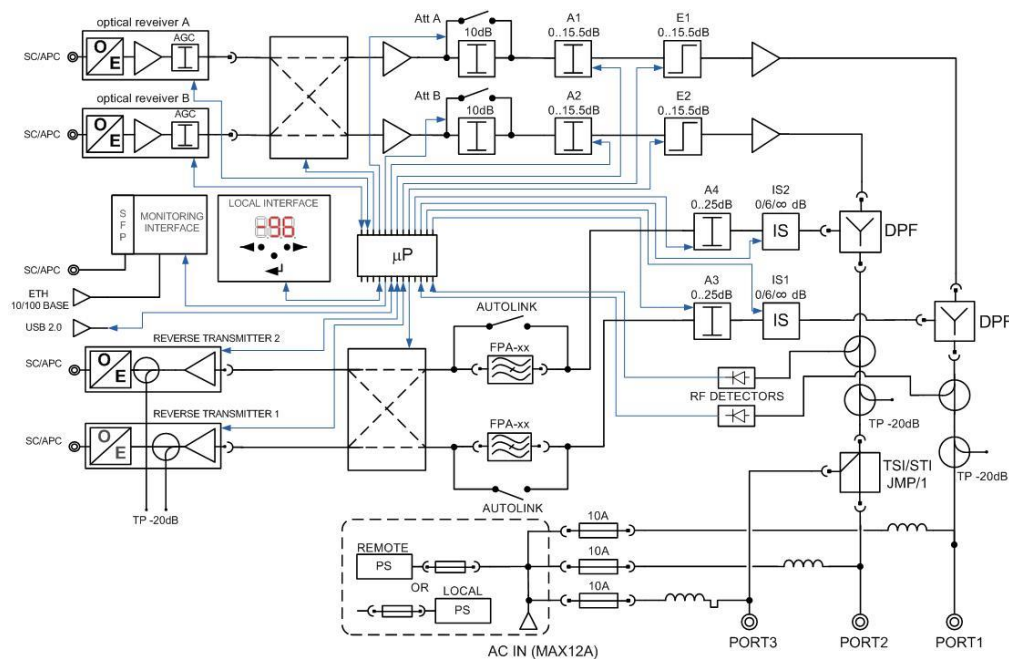
**"AUTO ALIGNMENT"** – a mode used for automatic adjustments. An internal device automatically proceeds with self-regulation in order to maintain pre-set RF output level. Such mechanism allows for RF level readings by output detectors, required programmable output signal level, and information related to Optical Modulation Index (%OMI) delivered to the receiver.

**MON-2729A** can be equipped with monitoring module including RJ45 or SFP interface. Depending on the need, there is a possibility of remote monitoring using fibre optic or copper medium, completely independent from DOCSIS transmission.

## TECHNICAL PARAMETERS

| PARAMETERS   |        |                              | MON-2729A                   |  |                     |                   |
|--|--------|------------------------------|-----------------------------|--|---------------------|-------------------|
| <b>OPTICAL PARAMETERS</b>  |        |                              | <b>RETURN PATH</b>          |  |                     |                   |
| Input optical power range  | dBm    | -9...+2                      | Frequency range             | MHz  | 5...65, 85          |                   |
| AGC range  | dBm    | -7...0                       | Gain                        | dB   | 22                  |                   |
| Optical return loss  | dB     | >45                          | Return loss                 | dB   | 20                  |                   |
| Optical input wave length  | nm     | 1100...1650                  | Flatness                    | dB   | ±0,75               |                   |
| Equivalent input noise current   | pA/√Hz | <7,5                         |                             |  |                     |                   |
| Optical connector  | /      | SC/APC                       | Attenuators A3, A4          | dB   | 0...25, step 0,5    |                   |
| <b>FORWARD PATH</b>  |        |                              | Test points                 | dB   | -20 ±1              |                   |
| Frequency range  | MHz    | 87, 110...1006               | TX 2729 Return Transmitters | 1310FP 0dBm<br>1310/1550 DFB 3dBm<br>CWDM DFB 3dBm |                     |                   |
| Flatness   | dB     | ±0,75                        |                             |  |                     |                   |
| Output level (CENELEC 42)<br>1310nm@ -3dBm E1 i E2=6dB,<br>4% OMI, AGC ON,<br>CTB ≤ 60dBc<br>CSO ≤ 60dBc | dBμV   | 2x114                        | <b>OTHER</b>                |  |                     |                   |
| Interstage attenuator A1, A2   | dB     | 0...15, step 0,5             | Power supply                | local: MON-2729A                                   | V <sub>AC</sub> /Hz | 180...253 / 50-60 |
|  |        |                              |                             | remote: MON-2729AZ                                 | V <sub>AC</sub> /Hz | 30...90 / 50-60   |
| Interstage slope E1, E2  | dB     | 0...15, step 0,5             | Power consumption           | W  | <36                 |                   |
| Test points  | dB     | -20 ±1                       | Output connector            | /  | PG11, 5/8"          |                   |
| Return loss at RF output   | dB     | 20 (40 MHz)<br>-1,5 dB/ oct. | Protection class            | /  | IP52                |                   |
|  |        |                              | Work temperature range      | °C   | -20...+55           |                   |
|  |        |                              | Weight                      | kg   | 2,75                |                   |
|  |        |                              | Dimensions                  | mm   | 245x207x97          |                   |
|  |        |                              | Package                     | /  | box                 |                   |

## BLOCK DIAGRAM



Technical parameters may be changed without earlier notice.

[www.telmor.pl](http://www.telmor.pl)