## L-Band Distributing Matrix 8to4ty



The final product may vary from the above image depending on the options selected.

```
Products:
DEV 1984/8x20 8x20 Distributing Matrix 8to40ty;
    950...2150 MHz; 75 Ohm, F (f)
DEV 1984/8x40U 8x20 Distributing Matrix 8to40ty;
    950... }2150\textrm{MHz};75\mathrm{ Ohm, F (f);
    Field upgradeable up to 8\times40
```


## Features:

- $8 \times 40$ in 2 RU
- Various Input and Output Modules
- 75 Ohm, F (f) or BNC (f), or 50 Ohm, SMA (f)
- Optical Inputs
- Variable Gain (MGC or AGC)
- Variable Slope
- RF Sensing
- Extra switchable Output Port for Monitoring
- LNB Powering, switchable 13/18 V and 22 kHz Tone
- Graphical Local User Interface
- Integrated Spectrum Analyzer
- Input Channel Redundancy
- Power Supply Redundancy
- Secure Lock Operation
- SNMP Support
- Easy to use DEV Web Interface
- Signal Recording and Data Backup Feature


## Technical Data



Option 20I Change 4 Input Channels to 50 Ohm, SMA (f)
Option 200 Change 4 Output Channels to 50 Ohm, SMA (f)
Per Option 20, one module with four channels is equipped with 50 Ohm, SMA (f) connectors instead of 75 Ohm, F (f) connectors.

Option 21I Change 4 Input Channels to 75 Ohm, BNC (f)
Option $210 \quad$ Change 4 Output Channels to 75 Ohm, BNC (f)
Per Option 21, one module with four channels is equipped with 75 Ohm, BNC (f) connectors instead of $75 \mathrm{Ohm}, \mathrm{F}$ (f) connectors.

## Technical Data (cont.)

## Option 22I Change 4 Input Channels to Optical providing LC/APC

Per Option 221, one module with four input channels is equipped with LC/APC optical connectors instead of 75 Ohm, F (f) RF connectors.

| Optical Specifications |  |
| :--- | :--- |
| Fiber Type | Single Mode $9 / 125 \mu \mathrm{~m}$ |
| Connector Type | LC/APC |
| Wavelength | $1100 \ldots 1650 \mathrm{~nm}$ |
| Min. optical Input Level | -22 dBm |
| (optical Sensitivity) | +10 dBm |
| Damage optical Input Level |  |

## Option 25 Variable Slope (all Channels)

With Option 25 , the device provides slope control for all paths.
Variable Slope
0... 5 dB

## Option 29 Monitoring Port

With Option 29, the device provides an extra switchable output port for monitoring.

## Monitoring Port

Impedance, Connector 50 Ohm, SMA (f)
Return Loss

$$
>14 \mathrm{~dB}
$$

## Option 34 LNB Powering (all Channels)

With Option 34 each RF input port of the matrix is capable to deliver LNB power and to select the polarity (vertical ( 13 V ) or horizontal ( 18 V )) and the band (low band ( 0 Hz ) or high band ( 22 kHz )) of the LNB.
As Option 34 is per chassis, a mix of RF Input Modules with and without LNB Powering is not allowed. A mix of an Optical Input Module with an RF Input Module with LNB Powering is allowed.

## LNB Power \& Current Monitoring

LNB Power
Voltage and Tone Control
Adjustable Level Setting:

- Upper Alarm Level
- Lower Alarm Level

Max 350 mA per Input
$13 \mathrm{~V}, 18 \mathrm{~V}$ and $0 \mathrm{~Hz}, 22 \mathrm{kHz}$

- max. 330 mA
- min. 50 mA


## Option 36 Integrated Spectrum Analyzer

With Option 36 , the matrix is delivered with integrated spectrum analyzer functionality to be operated via Web Interface. The matrix chassis provides a dedicated external 50 Ohm, SMA (f) spectrum analyzer input port for connecting any signal to be probed.
For the technical data of the spectrum analyzer, please refer to the separate spec sheet.

## Option 38 Secure Lock Operation

With Option 38 , the matrix provides the ability of Secure Lock Operation for multiple user operation. While each user can be configured to operate dedicated inputs and outputs, Secure Lock Operation allows user X to lock a switched path while user $Y$ cannot unlock this path to prevent unwanted service interruptions. Admin user is able to overwrite any path locked by normal users.

## Option 48 Input Channel Redundancy

With Option 48, the matrix software provides the ability to configure redundant input channel configurations. Triggered via the integrated RF Sensing functionality an assigned redundancy channel can take over autonomously the signal transport of a main channel. The switching back to the main channel can be performed either manually or automatically.

## Technical Data (cont.)

## Option 854 Input Channels less Option 864 Output Channels less

With Option 85 or Option 86, the device is delivered with four input channels or with four output channels less. Thus, the standard configuration can be equipped with less input or output channels. This provides the flexibility to configure the device for the current requirements and to keep the option to upgrade the device to an application specific maximum size. The field upgrade can be performed by the customer by ordering the corresponding input or output module.

## Order Information

## Products

DEV 1984/8x20
DEV 1984/8x40U
$8 \times 20$ Distributing Matrix 8to40ty; 950... $2150 \mathrm{MHz} ; 75$ Ohm, F (f) $8 \times 20$ Distributing Matrix 8to40ty; 950... $2150 \mathrm{MHz} ; 75$ Ohm, F (f); Field upgradeable up to $8 \times 40$

## Options

Option 201
Change 4 Input Channels to 50 Ohm, SMA (f)
Option 200
Option 21I
Option 210
Option 221
Option 25
Option 29
Change 4 Output Channels to 50 Ohm, SMA (f)
Change 4 Input Channels to 75 Ohm, BNC (f)
Change 4 Output Channels to 75 Ohm, BNC (f)
Change 4 Input Channels to Optical providing LC/APC
Variable Slope (all Channels)
Monitoring Port
LNB Powering (all Channels)
Option 34 Integrated Spectrum Analyzer Secure Lock Operation Input Channel Redundancy Additional Web License 4 Input Channels less 4 Output Channels less

## Contact

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