

## L-Band Distributing Matrix 8<sup>2</sup>



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

### Product

**DEV 1982** 8x8 Distributing Matrix 8<sup>2</sup>; 950...2150 MHz; 75 Ohm, F (f)

### Features

- ▀ 8x8 in 1 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
- ▀ 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

### DEV 1982 Distributing Matrix 8<sup>2</sup>

#### Capacity

Number of Inputs x Outputs 8x8

#### RF Specifications

Frequency Range 950...2150 MHz

Impedance, Connectors 75 Ohm, precision F (f)

Damage Level +25 dBm

Operational Input Level <-5 dBm

Return Loss >14 dB

Variable Gain -20...+30 dB

Flatness ±3.0 dB (over entire Band)

±0.4 dB (in any 36 MHz Interval)

Isolation Input/Input, Output/Output: typ. 60 dB

Input/Output (Crosstalk): typ. 60 dB

Off: typ. 80 dB

Intermodulation Distortion <-40 dBc (two Tones @ -8 dBm)

Group Delay Distortion <2 ns (in any 36 MHz Interval)

Noise Figure <14 dB

OP1dB 0 dBm

Relay Type Semiconductor

#### Monitoring Port

Impedance, Connector 50 Ohm, SMA (f)

Return Loss >14 dB

#### Local Operation

Display 2.2" Full Color (18 Bits)

Controls Rotary Switch

#### Remote Communication

Interface (Connector) Ethernet (RJ-45)

Remote Control & Surveillance (Interface)

- via Web Interface (Ethernet)
- via SNMP (Ethernet)

#### Redundant Power Supply

Supply Voltage 100...240 V AC supplied by two different Lines

Power Consumption Max. 100 VA

#### General Specifications

Size 19" (483 mm) Width, 1 RU (44 mm) Height, ~300 mm Depth

Weight ~6 kg

Environmental Conditions ETS 300019 Part 1-3 Class 3.1E

#### Option 20I Change 4 Input Channels to 50 Ohm, SMA (f)

#### Option 20B Change 4 Input Channels to 50 Ohm, SMA (f) with LNB Powering

#### Option 20O Change 4 Output Channels to 50 Ohm, SMA (f)

Per Option 20I (Option 20O), one input (output) module with four channels is equipped with 50 Ohm, SMA (f) connectors instead of 75 Ohm, F (f) connectors.

With Option 20B the four input channels are capable to deliver LNB power in addition:

#### LNB Power & Current Monitoring

LNB Power max. 350 mA per Input

Voltage and Tone Control 13 V, 18 V and 0 Hz, 22 kHz

Adjustable Level Setting:

- Upper Alarm Level • max. 330 mA
- Lower Alarm Level • min. 50 mA



## Technical Data (cont.)

### **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.

### **Option 85      4 Input Channels less**

### **Option 86      4 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 appropriate input module or output module.

## Order Information

### Product

DEV 1982 8x8 Distributing Matrix 8<sup>2</sup>; 950...2150 MHz; 75 Ohm, F (f)

### Options

Option 20I	Change 4 Input Channels to 50 Ohm, SMA (f)
Option 20B	Change 4 Input Channels to 50 Ohm, SMA (f) with LNB Powering
Option 20O	Change 4 Output Channels to 50 Ohm, SMA (f)
Option 21I	Change 4 Input Channels to 75 Ohm, BNC (f)
Option 21B	Change 4 Input Channels to 75 Ohm, BNC (f) with LNB Powering
Option 21O	Change 4 Output Channels to 75 Ohm, BNC (f)
Option 22I	Change 4 Input Channels to Optical providing LC/APC
Option 22IHP	Change 4 Input Channels to Optical providing LC/APC (High Input Power)
Option 23B	Change 4 Input Channels to 75 Ohm, F (f) with LNB Powering
Option 24I	Change 4 Input Channels to Optical providing SC/APC
Option 24IHP	Change 4 Input Channels to Optical providing SC/APC (High Input Power)
Option 25	Variable Slope (all Channels)
Option 38	Secure Lock Operation
Option 48	Input Channel Redundancy
Option 85	4 Input Channels less
Option 86	4 Output Channels less

### Modules

#### (Input Modules and Output Modules for Upgrade or as Spare Part)

DEV 13-0270	Input Module, 4 Paths; 950..2150 MHz; 50 Ohm, SMA (f)
DEV 13-0281	Input Module incl. LNB Powering, 4 Paths; 950..2150 MHz; 50 Ohm, SMA (f)
DEV 13-0271	Output Module, 4 Paths; 950..2150 MHz; 50 Ohm, SMA (f)
DEV 13-0268	Input Module, 4 Paths; 950..2150 MHz; 75 Ohm, BNC (f)
DEV 13-0280	Input Module incl. LNB Powering, 4 Paths; 950..2150 MHz; 75 Ohm, BNC (f)
DEV 13-0269	Output Module, 4 Paths; 950..2150 MHz; 75 Ohm, BNC (f)
DEV 13-0276	Input Module, 4 Paths; 950..2150 MHz; 75 Ohm, F (f)
DEV 13-0242	Input Module incl. LNB Powering, 4 Paths; 950..2150 MHz; 75 Ohm, F (f)
DEV 13-0293	Output Module, 4 Paths; 950..2150 MHz; 75 Ohm, F (f)
DEV 13-0253	Optical Input Module, 4 Paths; LC/APC
DEV 13-0397	Optical Input Module, 4 Paths; High Input Power; LC/APC
DEV 13-0384	Optical Input Module, 4 Paths; SC/APC
DEV 13-0398	Optical Input Module, 4 Paths; High Input Power; SC/APC

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