



IFSA BaseLine Series

...designed for perfect signals



IF Active Splitter with redundant Amplifier

The IFSA BaseLine Splitter represents professional active IF splitting in a compact 1RU/19" rack mount chassis, especially designed for RF distribution applications where excellent, stable and accurate signal quality and performance is necessary.

The unit is available as 4-way or 16-way active splitter and operate at the IF frequency range 50 – 200MHz.

Additionally, they feature RF power monitoring at all inputs and at its output and come with 1:1 amplifier and 1:1 redundant dual power supply.

Front side status LED's indicating and monitoring the health status of the unit. Remote configuration, monitoring and alarming can be done via an RJ45 Ethernet-Interface (WebGUI, SNMP).



FEATURES & BENEFITS

- ▶ IF frequency (50 – 200MHz)
- ▶ 1:4 or 1:16 splitting
- ▶ 1:1 redundant amplifier
- ▶ 50Ohm SMA(f)

- ▶ Threshold monitoring
- ▶ Front panel status LED's
- ▶ Remote configuration and monitoring (WebGUI, SNMP)
- ▶ 1:1 redundant dual power supply



TECHNICAL SPECIFICATIONS

| | |
|----------------------------------|---|
| Dimensions: | 1RU/19" rack mount |
| Power Supply: | 85 – 264V, 50/60Hz, 1:1 redundant |
| Power Consumption: | <10W |
| Frequency Range: | 50 – 200MHz (10MHz with Option IFSA10) |
| Input/Output Connectors: | 50Ohm SMA(f) |
| Input RF Power: | Nominal -10dBm, +10dBm max. damage level |
| Input/Output Return Loss: | 18dB min., 20dB typ. |
| Noise Figure: | 8dB max. |
| Isolation: | 23dB min., 25dB typ. |
| Insertion Loss: | 0dB typ., ±0.5dB max. |
| Frequency Response: | ±0.5dB typ., ±1.0dB max. |
| P1dB: | +3dBm typ. |
| IMA3 @ -10dBm: | -60dBc typ. |
| SFDR: | < - 80dBm |
| Gain Adjust: | 0 to +5dB (1:16), +10dB (1:4) at splitter output for all ports together, step 0,5dB (not Option IFSA10) |
| RF Power Monitoring: | -40 to 0dBm dynamic range, calibrated to LTE signal on request, standard CW calibration |
| Threshold Monitoring: | -30 to 0dBm adjustable all inputs and common output with alarm |
| Remote Configuration: | RJ45 Ethernet-Interface (WebGUI, SNMP) |
| Status LED's: | Power supply, Splitter Module, Ethernet status |
| Operating Temperature: | 0°C to 50°C |
| Storage Temperature: | -20° to 75°C |
| MTBF: | 390khours MIL-HDBK-217F (25°C) |
| Humidity: | 90%, non-condensing |
| RoHS: | Compliant |

ORDER INFORMATION

Type with 50Ohm SMA(f)

| Module Type | Type No. | Short Description |
|--------------|----------|---|
| IFSA104R-50S | 9001313 | Active IF Splitter 1:4, IF 50 – 2000MHz, 1:1 redundant amplifier, adjustable gain 0 to 10dB, Output RF power monitoring, THD function, 50Ohm SMA(f), Status LED, Ethernet-Interface (WebGUI, SNMP), 1:1 redundant PSU, Frontside Measurement Port |
| IFSA116R-50S | 9001222 | Active IF Splitter 1:16, IF 50 – 2000MHz, 1:1 redundant amplifier, adjustable gain 0 to 5dB, Output RF power monitoring, THD function, 50Ohm SMA(f), Status LED, Ethernet-Interface (WebGUI, SNMP), 1:1 redundant PSU, Frontside Measurement Port |

OPTIONS

| Type | Type No. | Short Description |
|----------------|----------|---|
| Option IFSA10 | 9001389 | 10MHz Low Frequency Option for IFSA116R, no gain adjust IFSA116R-50S/10 |
| Option IFSA-IR | 9001390 | 2 nd Input for input signal redundant operation |