

...designed for perfect signals

IF Active Combiner with redundant Amplifier

The IFCA Baseline Combiner represents professional active IF combining 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 combiner 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)
- ▶ 4:1 or 16:1 combining
- ▶ 1:1 redundant amplifier
- ▶ 50Ohm SMA(f)
- ▶ Every input port can be individually disabled/enabled

- ▶ RF power monitoring all inputs and combined output
- ▶ Threshold monitoring all ports
- ▶ 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
Input/Output Connectors:	50Ohm SMA(f)
No. of Inputs:	16
Input Port Control:	Every input port can be individually disabled/enabled
Input RF Power:	Nominal +10dBm, +20dBm max. damage level
Input/Output Return Loss:	18dB min.
Noise Figure:	16dB max.
Isolation:	23dB min., 25dB typ.
Insertion Loss:	0dB typ., ±0.5dB max.
Frequency Response:	±0.5dB typ., ±1.0dB max.
P1dB:	+10dBm typ. at full gain
IMA3 @ -10dBm:	-60dBc typ.
SFDR:	< -80dBm
Gain Adjust:	0 to +5dB (16:1), +10dB (4:1) at Output Combiner, Steps 0,5dB
RF Power Monitoring:	-40 to +10dBm dynamic range all ports, calibrated to LTE signal on request, standard CW calibration
Threshold Monitoring:	-40 to 0dBm adjustable all inputs and common output with alarm
Remote Configuration:	RJ45 Ethernet-Interface (WebGUI, SNMP)
Status LED's:	Power supply, Combiner 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
IFCA104R-50S	9001312	Active IF Combiner 4:1, IF 50 – 200MHz, 1:1 redundant amplifier, adjustable gain 0 to 10dB, Input and Output RF power monitoring, THD function, input ports enable/disable, 50Ohm SMA(f), Status LED, Ethernet Interface (WebGUI, SNMP), 1:1 redundant PSU
IFCA116R-50S	9001221	Active IF Combiner 16:1, IF 50 – 200MHz, 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

OPTIONS

Type	Type No.	Short Description
Option BaseLine MPFS	9001275	BaseLine monitoring port 50Ohm SMA(f) frontside for IFCA and IFSA