

### MAIN FEATURES

- ❖ 2U 19" indoor rack cabinet
- ❖ 4pcs of 40GHz SP6T coaxial switches
- ❖ 6pcs of 18GHz SPDT coaxial switches
- ❖ Keypad and LCD for local control
- ❖ TCP/IP remote control
- ❖ Low insertion loss



### DESCRIPTION

The BUSR14 is a switch matrix for automated RF test setups. It contains 4pcs of 40GHz SP6T coaxial switches and 6pcs of 18GHz SPDT coaxial switches. All the switches can be controlled from the front panel keypad and LCD or remotely through TCP/IP. The BUSR14 is ideal for forming complex RF test setups for frequency converters, amplifiers and signal synthesizers.

### SPECIFICATIONS

GENERAL	
Number of RF coaxial switches	4pcs of 40GHz SP6T and 6pcs of 18GHz SPDT
Control voltage of the switches	24V
RF CHARACTERISTICS OF THE SP6T SWITCHES	
RF input frequency	DC-40GHz
VSWR	DC-6GHz: 1.3:1 max., 6-12.4GHz: 1.4:1 max., 12.4-18GHz: 1.5:1 max., 18-26.5GHz: 1.7:1 max., 26.5-40GHz: 2.2:1 max.
Insertion loss	DC-6GHz: 0.2dB max., 6-12.4GHz: 0.4dB max., 12.4-18GHz: 0.5dB max., 18-26.5GHz: 0.7dB max., 26.5-40GHz: 1.1dB max.
Isolation	DC-6GHz: 70dB min., 6-12.4GHz: 60dB min., 12.4-18GHz: 60dB min., 18-26.5GHz: 55dB min., 26.5-40GHz: 50dB min.
Nominal impedance	50Ω
Maximum RF power	10W
RF CHARACTERISTICS OF THE SPDT SWITCHES	
RF input frequency	DC-18GHz
VSWR of one DPDT switch	DC-3GHz: 1.1:1 max., 3-8GHz: 1.2:1 max., 8-12.4GHz: 1.2:1 max., 12.4-18GHz: 1.4:1 max.
Insertion loss of one DPDT switch	DC-3GHz: 0.15dB max., 3-8GHz: 0.2dB max., 8-12.4GHz: 0.25dB max., 12.4-18GHz: 0.35dB max.
Isolation of one DPDT switch	DC-3GHz: 80dB min., 3-8GHz: 75dB min., 8-12.4GHz: 65dB min., 12.4-18GHz: 60dB min.
Nominal impedance	50Ω
Maximum RF power	10W



## BUSR14 Switch Matrix for Automated RF Test Setups

CONTROL & MONITORING	
Control and monitoring interface	Keypad and LCD display for local control and monitoring TCP/IP over 10/100Base-T Ethernet
Controls	Control of RF coaxial switches through the front panel keypad or through TCP/IP
Monitoring	Status of the RF switches through the front panel LCD, through TCP/IP or through indicator LEDs on the rear panel
Warnings	RF coaxial switch error
MECHANICAL CHARACTERISTICS	
Dimensions	2U 19" rack cabinet (364mm depth)
Weight	6kg
RF connectors	2.92mm female for SP6T switches SMA female for SPDT switches
AC mains input connector	IEC C14 inlet
Control connector	RJ45 for Ethernet
POWER SUPPLY	
Voltage	90-264VAC
Frequency	47-63 Hz
Power consumption	≤15VA
Fuse value	T4A (4A, Slow blow)
ENVIRONMENT	
Operating temperature range	0°C ... +50°C
Storage temperature range	-30°C ... +70°C
Humidity	95% (not condensing)
Ingress protection level	IP40
Vibration	according to MIL-STD-810G Method 514.6-Cat 4
Shock	½ sinus 30g, 11msec on 3 axis

Specifications are subject to change without notice.

### OUTLINE DRAWING (mm)

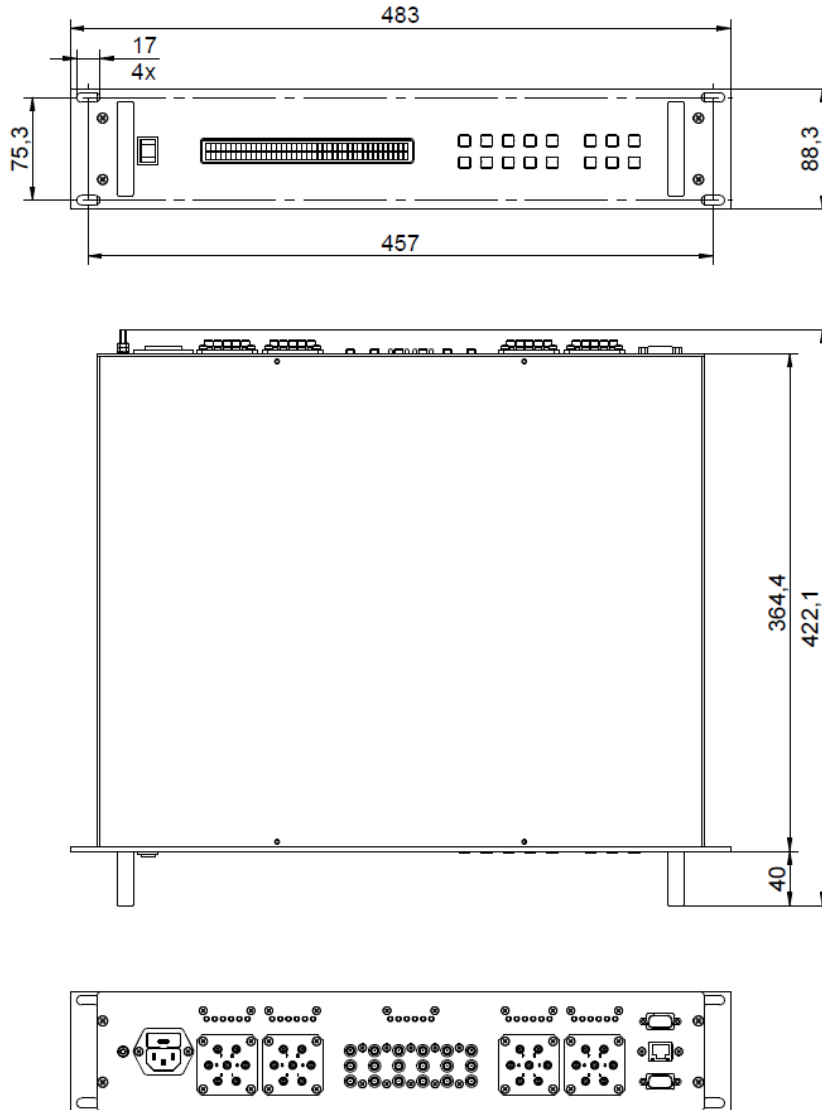


Figure 1. Outline drawing

### ORDERING INFORMATION

MODEL NUMBER	DESCRIPTION
BUSR14K11245	BUSR14 Switch Matrix for Automated RF Test Setups

### DOCUMENT REVISION

DOCUMENT NAME	REVISION	DATE
BUSR14-LM-K11245	V02	2023/02/22