

FlexLink K73S Switch Matrix

L-Band Switch Matrix 8:8 to 128:16, Fast Switching Time

The “**FlexLink K73S-12816**” represents professional Switch Matrix system, built into a 6RU/19" rack mount chassis with only 500mm depth, supporting L-Band (950...2150MHz) and Extended L-Band (850...2450MHz) making it a perfect solution also for KU/KA-Band and HTS applications.

The system can be assembled with various input/output configurations from 8:8 to max. 128:16 simply by adding additional input/output switch-boards (increments of 8). It performs as a distributive switch/routing platform allowing to switch/route any selected input to any or all outputs.

The “**FlexLink K73S-12816**” was especially developed to be used in measurement systems so it supports a fast switching time down to 25ms, depending on the synchronizing of the measurement system.

This Switch Matrix system offers flexibility, beneficial features and superior RF performance at the highest quality level. All matrix input switch-boards are hot-swappable and besides the 8 or 16 outputs the unit also has 16 calibration loop through ports for Spectrum-Analyzer and Measurement System Calibration, supporting a frequency range down to 50MHz.

UNIQUE



INNOVATIVE



CLEVER

Additionally, the “**FlexLink K73S-12816**” supports status monitoring of all active components and comes with 1:1 redundant dual power-supply (hot swappable). Optionally the system can be equipped with variable gain-control (@ any output).

The “**FlexLink K73S-12816**” matrix system can be configured and monitored locally via its front-side 8" colored touchscreen. Remote configuration can be done via an Ethernet-Interface (WebGUI/SNMP) and UDP protocol for fast switching via Port 8000 to 8016.

RF-Design’s local and remote configuration platform for the “**FlexLink K73S-12816**” allows the configuration of all relevant matrix settings including routing/switching settings, variable gain control (Option) and more. The configuration software also supports user administration management and user rights assignment, logbook function, storage functions and monitoring for each individual switch-board, power-supplies and ventilators.

The “**FlexLink K73S-12816**” is a perfect system for signal monitoring applications but also ideal for flexible signal assignment in RF distribution infrastructures at Teleports, Satellite Earth Stations as well as Broadcast and CATV/IPTV headend operations.

⇒ **Features & Benefits**

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FEATURES & BENEFITS

- Space saving 6RU/19" modular rack-mount design
- Supporting L-Band 950...2150MHz and Extended L-Band 850...2450MHz
- 8:8 to max. 128:16 I/O's
- Easy scalable at the inputs via adding input switch-boards (increments of 8)
- Variable gain control @ any output (Option)**
- 16 calibration loop through ports rear-side, 50MHz
- Fast switching down to 25ms (adjustable)
- Hot-swappable input switch-boards
- Coax inputs & outputs 50 SMA(f)
- 8" front-side touchscreen LC-Display for local configuration
- 100MBit Ethernet-Interface for remote configuration (WEB-GUI, SNMPv2c, ASCII via UDP 8000-8016)
- 1:1 redundant dual power-supply (hot-swappable)
- Perfect for monitoring and signal management applications

**Upon request only / **Option*

Software & Configuration Features

- Supports local and remote configuration for all relevant settings and adjustments
- Local configuration via 8" colored touchscreen LC-Display
- Remote Control via 100MBit Ethernet-Interface (WebGUI, SNMPv2c, UDP protocol Port 8000-8016)
- RS232 Interface on request
- User administration with user rights management (only Web GUI)
- Monitoring functions for active components, unit-status, switch-boards status, power-supply status

⇒ **Technical Specifications**

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TECHNICAL SPECIFICATIONS

General Specifications

➤ Dimensions:	6RU/19", 400mm deep
➤ Power supply:	85...230, 50/60Hz (1:1 redundant, hot swappable)
➤ Power consumption:	<200W (@128:16 configuration)
➤ Frequency range:	950...2150MHz (L-Band) & 850...2450MHz (Extended L-Band)
➤ Switch matrix type:	Fan-out/distributive
➤ I/O configuration variants:	8:8...128:16 I/O's (increments of 8)
➤ Switching elements:	Solid-state switches
➤ Switching time:	Adjustable 25ms to 100ms
➤ Available I/O connectors:	50Ohm SMA(f)
➤ Variable gain control**:	-3dB...+3dB (1dB steps), @ each output**
➤ Calibration ports:	16 calibration loop through ports; 50Ohm SMA(f), 50MHz
➤ Local configuration:	8" colored touchscreen LC-Display
➤ Remote configuration:	RJ45 Ethernet-Interface (WebGUI, SNMPv2c)
➤ Management UDP:	Port 8000 to 8016 via UDP Protocol
➤ Serial Interface:	RS232 (upon request)
➤ RoHS:	Compliant

**Upon request only / **Option*

RF Specifications

➤ Frequency range:	950...2150MHz and 850...2450MHz
➤ Frequency response:	± 1,5dB L-Band; ±2,5dB extended L-Band
➤ Noise Figure:	<15dB typ.
➤ Insertion loss:	0dB...±1,0dB max.
➤ Input / Output Return loss:	12dB min., 14dB typ. @ L-Band*
➤ Isolation:	≥50dB @ L-Band*
➤ RF input power:	+10dBm max. (damage level)
➤ RF output power:	+10dBm max. (damage level)
➤ Cal. loop through loss:	-3dB, frequency response ± 1,5dB
➤ IMA3 @ -10dBm:	< 50dBc
➤ P1dB:	+6dBm

** Specifications for Extended L-Band available upon request*

Environmental Specifications

➤ Location:	Indoor use only
➤ Operating temperature:	0°C...45°C
➤ Storage temperature:	-10°C...65°C
➤ Humidity:	90%, non-condensing

Options

Type	Short Description
Option 105	Variable gain control -3dB...+3dB (1dB steps), @ each output