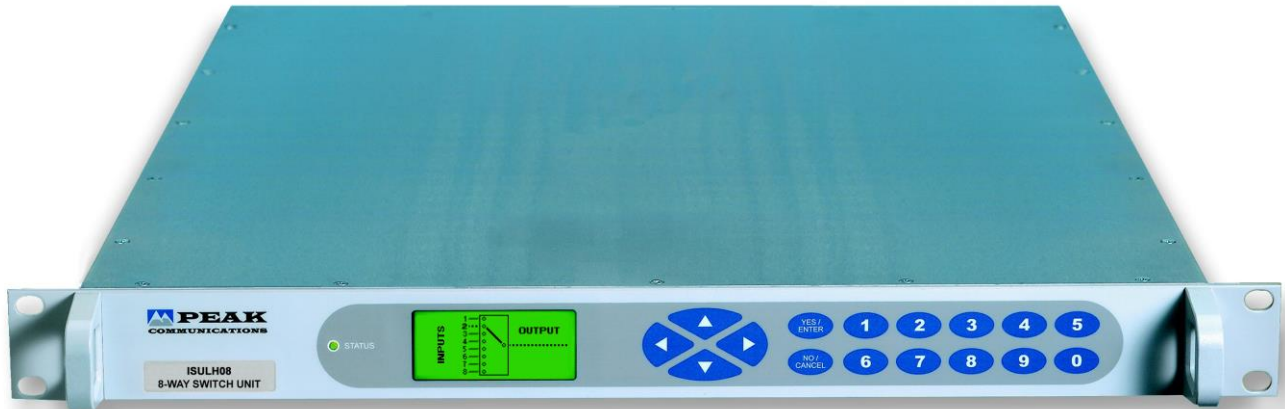


ISUH Series

IF/ L-Band & SHF, Switch Units, rack mounted with user interface.



High Grade Switch Products;

ISULH04	4:1 (4 inputs, 1 output), IF/ L-Band	ISUSH04	4:1 (4 inputs, 1 output), SHF
ISULH08	8:1 (8 inputs, 1 output), IF/ L-Band	ISUSH08	8:1 (8 inputs, 1 output), SHF
ISULH12	12:1 (12 inputs, 1 output), IF/ L-Band	ISUSH12	12:1 (12 inputs, 1 output), SHF
ISULH16	16:1 (16 inputs, 1 output), IF/ L-Band	ISUSH16	16:1 (16 inputs, 1 output), SHF
ISULH24	24:1 (24 inputs, 1 output), IF/ L-Band	ISUSH24	24:1 (24 inputs, 1 output), SHF
ISULH32	32:1 (32 inputs, 1 output), IF/ L-Band	ISUSH32	32:1 (32 inputs, 1 output), SHF






For other switching configurations & frequency ranges, please contact the factory

The 19 inch, 1U rack mounted **ISUH series** of IF/ L-Band & SHF switch units from Peak Communications are designed to provide high quality signal switching, primarily for satellite Earth station monitoring and distribution applications. They include latching switches which maintain the RF path configuration in the event of a power failure, rather than pin diode switches which are common in lower grade designs.

The **ISUH series** units are mains powered and are constructed of high grade components to give the ultimate isolation performance.

These units are offered with a range of optional enhancements and Peak is happy to customise the units to meet specific needs (please contact the Peak team directly to discuss any non-standard requirements).

Peak Features

-  Latching switches to maintain RF path configuration in the event of power failure
-  High isolation
-  Compact with up to 16:1 (16 inputs, 1 output) in a single 1RU chassis
-  Optional monitoring, dual PSU's, Ethernet remote control etc.
-  Customising available



ISUH series – Typical Specification

Switch Performance

Switch type	latching
Ways (x:x)	4:1, 8:1, 12:1 & 16:1 available in 1RU 24:1 available in 2RU 32:1 available in 3RU
Frequency	
IF/L-Band;	9kHz to 3GHz
SHF;	up to 31GHz available, please contact factory
	<i>Note: for performance degradation above 3GHz please contact the factory</i>
Insertion loss	1dB \pm 1dB nom
Gain flatness	\pm 0.75dB across full band (up to \pm 1.5dB for 32:1) \pm 0.25dB across any 40MHz
Input power	+50dBm max.
Isolation	80dB typ. (between any two input ports)
Input return loss	15dB
Output return loss	15dB

RF Interfaces

Input connections	SMA (f), 50 Ω (K-Type above 20GHz)
Option 1a	BNC (f), 50 Ω
Option 1b	N-Type (f), 50 Ω (up to 8-way only in 1RU)
Option 1c	BNC (f), 75 Ω
Output connections	SMA (f), 50 Ω (K-Type above 20GHz)
Option 1d	BNC (f), 50 Ω
Option 1e	N-Type (f), 50 Ω (up to 8-way only)
Option 1f	BNC (f), 75 Ω

DC Blocking (Option 8)

Provides DC blocking facility for switch inputs or outputs

Output 'Monitor' (Option 2a, 2b)

Connected directly to front panel (Option 2a) or rear panel (Option 2b) to provide an appropriately terminated monitor port.

Level -20dBc \pm 3dB

Note: connection type, impedance and level offered will be identical to the main rear panel interfaces, unless otherwise requested.

Electronically Variable Attenuation (Option 10)

Attenuation range	30dB
Step size	0.1dB or 0.5dB
Control	Electronically variable via local front panel & remote control

Note: attenuator typically fitted to common output. Input power, Noise Figure & Flatness degraded with this option, please contact factory for details.

Mechanical

Width	19", standard rack mount
Height	Typically up to 16:1 in 1U (1.75"), up to 24:1 in 2RU (3.5"), up to 32:1 in 3RU (5.25")
Depth	400mm, plus connectors
Construction	Aluminium chassis
Weight	Approx. 2kgs (4.4lbs)

Environmental

Operating temp	-10 $^{\circ}$ C to +50 $^{\circ}$ C
EMC	EN55022 part B & EN50082-1
Safety	EN60950

Power supply

Voltage	90-264VAC
Frequency	47-63Hz
Power	30 Watts max.
Option 7;	Redundant PSU; provides a 1+1 redundant power supply configuration with separate prime power inputs

Control System Interface

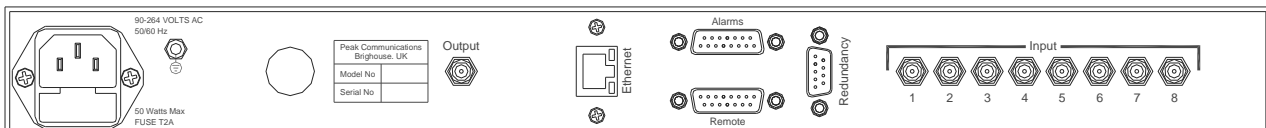
Remote Control	RS232/RS485 port
Option 9;	Ethernet; embedded web server & SNMP network management support
Discrete 'alarms interface'	PSU fail Amplifier current detection

Options

- 1a) Input's BNC (f), 50 Ω connections
- 1b) Input's N-Type (f), 50 Ω connections (8:1 max. in 1RU)
- 1c) Input's BNC (f), 75 Ω connections
- 1d) Output's BNC (f), 50 Ω connections
- 1e) Output's N-Type (f), 50 Ω connections
- 1f) Output's BNC (f), 75 Ω connections
- 2a) Output front panel monitor port
- 2b) Output rear panel monitor port
- 5) Spare port terminations
- 7) Redundant power supplies
- 8) DC blocking for combiner inputs or splitter outputs
- 9) Ethernet interface with embedded web server & SNMP
- 10a) Electronic attenuator, 0-30dB (0.5dB steps), at IF/ L-Band
- 10b) Electronic attenuator, 0-30dB (0.1dB steps), at IF/ L-Band

Note: the addition of options can modify the typical specification, for details please consult the factory

Rear Panel View (8:1 switch unit shown)



Peak Communications reserves the right to alter the specifications of this equipment without prior notice. ISULH-140716.

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