

Patent Pending



1RU SMAC QoS Diplex Switch
(front view)

Quality of Service (QoS) Diplex Switch:

Features:

- ▶ RF switch to route CMTS/HSD upstream & downstream samples to a QoS probe
- ▶ Supports “Sam Knows” initiative of US Government
- ▶ Supports Telnet script controls to rapidly cycle between 16 CMTS ports
- ▶ Allows any combination of 16 ports to be active at any time
- ▶ 1RU chassis includes:
 - ▶ 16-way forward path combiner, F ports
 - ▶ 16-way return path splitter, F ports
 - ▶ Diplex filter (42/54 MHz standard)
 - ▶ Common port for connection to any test modem, F port
 - ▶ Rear 120 VAC fused power input
 - ▶ Rear RJ45 Ethernet port to allow Telnet control signal
 - ▶ Front access JXP pad positions to adjust U/S & D/S RF levels
 - ▶ Front status LED & software RESET switch



SMAC1FSW-16 (front view)



SMAC1FSW-16 (rear view)

QoS Diplex Switch Specifications

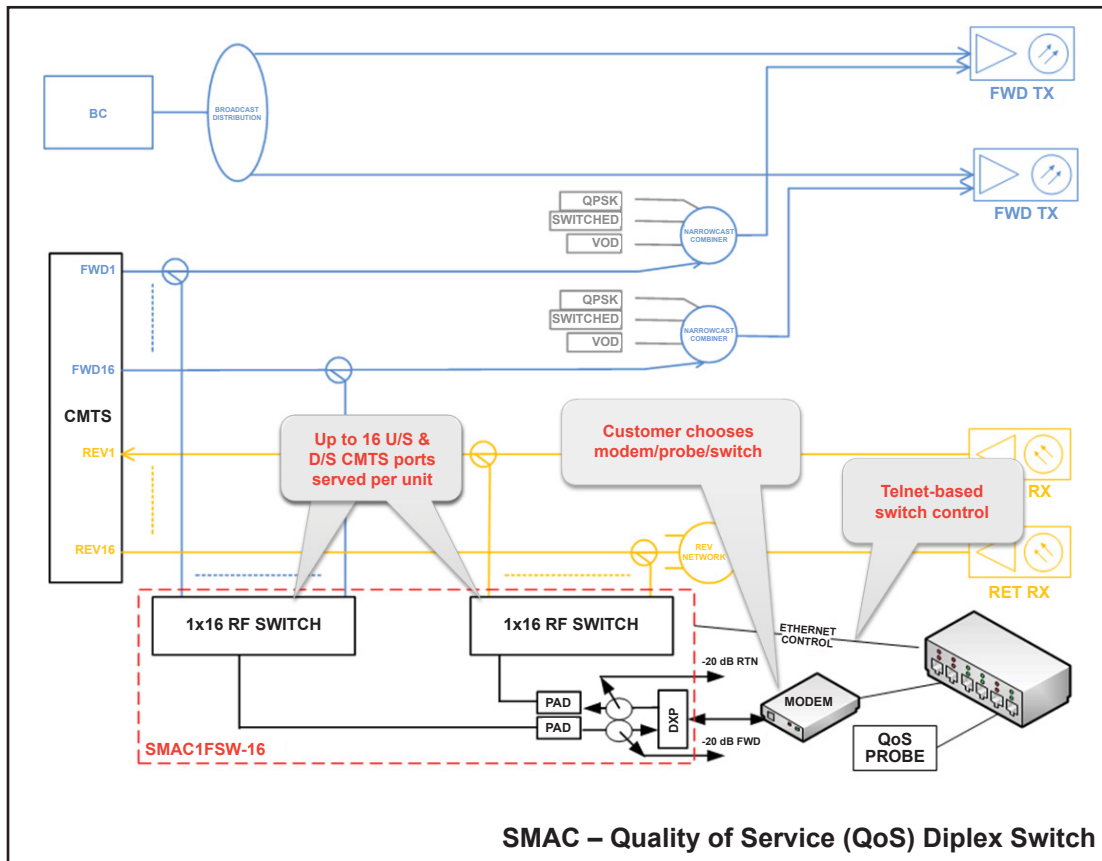
SPECIFICATIONS	
ELECTRICAL	
INPUT VOLTAGE	100-240 VAC
INPUT FUSE RATING	1A, 250V
FREQUENCY	50/60 Hz
INPUT POWER (Max)	4W
MECHANICAL	
OPERATING TEMPERATURE	0°C to +50°C (+32°F to +122°F)
HUMIDITY	5-95% (without condensation)
DIMENSIONS	1RU, Rack Mount: 1.75"H x 19.0"W x 9.0"D (4.45H x 48.26W x 22.86D cm)
WEIGHT	4.6 lbs (2.1 kg)
COMMUNICATIONS INTERFACE	10/100 Base-T Telnet

QoS Diplex Switch RF Specifications

SPECIFICATIONS		
MEASUREMENT	FREQUENCY	SMAC1FSW-16 QA (dB)
INSERTION LOSS	5-42 MHz	> 70
ANY DS PORT TO COMMON	54-1002 MHz	19 +/- 1
INSERTION LOSS	5-42 MHz	19 +/- 1
ANY US PORT TO COMMON	54-1002 MHz	> 40
US TEST POINT	5-42 MHz	20 +/- 1
RELATIVE TO COMMON (Input)		
DS TEST POINT	54-1002 MHz	20 +/- 1
SWITCH OFF (Isolation)	US TO COMMON	5-200 MHz > 70 200-1002 MHz > 60
	DS TO COMMON	5-1002 MHz > 70
	US TO DS	5-1002 MHz > 60
	US TO US OR DS TO DS	5-1002 MHz > 50
RETURN LOSS, ANY PORT	5-1002 MHz	> 16
RETURN LOSS, DS INPUT, OUT OF BAND	5-15 MHz	> 14

Quality of Service (QoS) Diplex Switch:

Application Diagram



Ordering Information

Part Number	Description
SMAC1FSW-16	SMAC Quality of Service (QoS) Diplex Switch

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All specifications at 25°C unless noted otherwise and are subject to change without notice.

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9001
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