

## TECHNICAL SPECIFICATIONS



### SETU VFX404 - VoIP-FXO Gateway with 4 VoIP and 4 FXS Ports

SETU VFX series is a range of multi-channel VoIP – FXO and FXS Gateways.

SETU VFX - the VoIP-FXS and FXO Gateways enable small and medium businesses to create a seamless office environment, integrate a traditional phone system into an IP network, and significantly reduce communication costs. These Gateways are ideally suitable for business and consumer VoIP services, including call centers and multi-location environments.

SETU VFX also enables large organizations to connect branch offices dispersed globally for Site-to-Site IP Telephony. This in turn reduces communication costs and helps them utilize existing telecom infrastructure.

VoIP	SETU VFX
SIP Accounts	9
Data Network	2 Port 10/100 Base-T (RJ45)
VoIP Protocol	SIPv2, SDP, RTP (RFC 2833)
Network Protocol	IPv4, TCP, UDP, PPPoE, DHCP Server & Client, SNTP, NAT, STUN, HTTP, DynDNS, Port Forwarding, and DMZ
Voice Codecs	G.711 A/ $\mu$ -Law, G.723.1, G.729AB, iLBC, GSM-FR
Line Echo Cancellation	G.168 with 128ms Tail Length
Voice Processing Techniques	Dynamic Jitter Buffer (Adaptive)

	Comfort Noise Generation (CNG)
	Voice Activity Detection (VAD)
Fax over IP (FoIP)	T.38 and Pass-Through
Quality of Service (QoS)	Layer 3 DiffServ and ToS
Security	SRTP/TLS over SIP

FXO	
Signaling	Loop Start
Connector	RJ11
Lifeline Support	1 (SETU VFX404 and SETU VFX808)
Loop Limit	1200W
DTMF Dialing & Reception	ITU-T Q.23 and Q.24
CLI Reception	DTMF, FSK ITU-T V.23 and FSK Bellcore 202, TEL URI
Call Maturity	Delay and Polarity Reversal

FXS	
Signaling	Loop Start
Connector	RJ11
Loop Limit	1800W (Max.) Excluding Telephone Set
DTMF Dialing & Reception	ITU-T Q.23 and Q.24
CLI Reception	DTMF, FSK ITU-T V.23 and FSK Bellcore 202
Return Loss	>18dB

POWER SUPPLY (Input)	
SETU VFX	12V DC, 2A

POWER CONSUMPTION (Typical)	
SETU VFX	15W

MECHANICAL (Dimension: W x H x D)	
SETU VFX	16.2 x 5.6 x 23.1 cm

WEIGHT	
SETU VFX	0.8Kgs (1.76lbs)

OPERATING TEMPERATURE	
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SETU VFX	-10°C to +50°C
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STORAGE TEMPERATURE	
SETU VFX	-40°C to +85°C

**Note: Specifications are subject to change without prior notice**

## ABOUT MATRIX

Established in 1991, Matrix is a leader in Security and Telecom solutions for modern organizations. Matrix offers a comprehensive range of solutions for IP Video Surveillance, Access Control, Time-Attendance, and Telecom applications. The solutions are designed to meet the communication and security requirements of large enterprises having offices in multiple locations, SMEs, and SMBs.

As an innovative, technology-driven, and customer-focused organization, Matrix is committed to keeping pace with the revolutions in the Security and Telecom industries. With around 40% of its human resources dedicated to the development of new products, Matrix has launched over 60 cutting-edge products and solutions.

IP Video Surveillance includes solutions like Video Management Systems, Network Video Recorders, and IP Cameras. Likewise, solutions in Access Control and Time-Attendance include Visitor Management Solutions, Elevator Access Control, Panels, Door Controllers, and Readers.

We offer Telecom Solutions such as Unified Communications, IP-PBX, Universal Media Gateways, VoIP and GSM Gateways, and Communication Endpoints. All these solutions are feature-rich, reliable, and conform to international standards.



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