A 354 SCiO 4 x 350W Class D Amplifier

AUDIOFOCUS

DSP	**SCiO**	**4 CHANNELS**	**70V·100V**	**HOTSPOT**
Digital Signal Processing	SCiO	4 Channels	70V - 100V	Hotspot

A354 SCiO is a leading-edge Class-D amplifier design, optimised for exceptional performance when combined with the AUDIOFOCUS loudspeaker range. The amplifier features comprehensive, integrated DSP and an extensive AUDIOFOCUS preset library.

Our super-intuitive SCiO network manager WebUI allows the audio engineer / integrator to remotely monitor and adjust all their amplifiers from a web browser, with no software downloads.

A daylight-visible display and single rotary encoder also allow fast hands-on setup and control. A354 SCiO's universal switch mode power supply features active power factor correction (PFC), ensuring efficient, reliable service across the globe.

Technical specifications

OPERATING CONDITIONS

Temperature	0° to 50° C, 10 to 60 % non-condensing
Storage temperature	-20° to 70° C
Safety / Compliance	CB Certificate

AMPLIFICATION AND POWER SUPPLY

Amplification class	Class D
Power supply model	Universal switch mode power supplies with active PFC
Power Factor	> 0.9 above 1/2 P
Mains Rating	100-240V @ 50-60 Hz
Operating Voltage	90-260V
AC Mains connector	IEC C20 Inlet (20 A max)

AUDIO SPECIFICATIONS

Frequency response	1Hz-22kHz
Distortion THD+N	0.05% @ P/2, 20Hz- 20 kHz, 22 kHz BW
Noise level (20 Hz – 20 kHz 8 ohm, A-weighted)	< 100 mV
Latency	1 mS
Phase response	±10 deg 20Hz – 20kHz

DSP

Digital Signal Processor	64 bit fix point
I/O Routing	Flexible routing matrix

USER PROCESSING FUNCTIONS PER CHANNEL

Gain	-80 to +15dB, 0.1dB steps
Polarity	Normal / inverted
Delay	0 to 250 ms (Shared between User and Group settings)
PEQ	12 x PEQ. Each PEQ can be set to a choice of 16 filter types (1)
HP/LP filters	Bessel, Butterworth and Linkwitz Riley with slopes from 6 to 48 dB/oct
Limiter	Peak voltage, RMS voltage

GROUP PROCESSING FUNCTIONS

Gain	-80 to +15dB, 0.1dB steps
Polarity	normal / inverted
Delay	0 to 250 ms (Shared between User and Group settings)
PEQ	12 x PEQ. Each PEQ can be set to a choice of 16 filter types (1)

SPEAKER PROCESSING FUNCTIONS

Gain	-80 to +15dB, 0.1dB steps
Polarity	normal / inverted
Delay	0 to 250 ms (Shared between User and Group settings)
PEQ	12 x PEQ. Each PEQ can be set to a choice of 16 filter types (1)
HP/LP filters	Bessel, Butterworth and Linkwitz Riley with slopes from 6 to 48 dB/oct
Limiter	Peak voltage, RMS voltage
FIR filters	1024 taps per channel

(1) Filter types :
Bell-Sym,Bell-Asym, Notch, Low-Shelf 6dB or12dB, High-Shelf 6dB or 12dB. All-Pass 90° or 180°, High-Pass 6dB, or 12dB, High-Pass VariQ 12dB. Low-Pass 6dB or 12dB, Low-Pass Vari-Q 12dB, Band-Pass

CIRCUIT PROTECTION

Mains and power supply	Under, over voltage, over current protection
Power outputs	DC, Overtemp, Overcurrent limiter, VHF
Load monitoring	Realtime load monitoring and internal pilot tone
Cooling	Cooling fans with temperature control speed

INPUTS

Analog	4 balanced analog line inputs 4x 3-pin Phoenix
A/D conversion	32 bit
Input impedance	10 kOhm
Max. input level	21 dBu
Digital	Optional digital network card
Internal Streaming source	Two channel internal streaming source supporting Spotify and Airplay

REMOTE CONTROL AND MONITORING

Network connection	Single port net Gigabit interface
Remote control software	AUDIOFOCUS SCiO

FRONT PANEL INDICATORS

Daylight viewable colour OLED display	Real time level , limit and fault indicators

OUTPUT POWER

Total burst power (all channels driven)	1400
2 ohms	350
4 ohms	350
8 ohms	350
16 ohms	250
Hi-Z 70V	280
Hi-Z 100V	140

MAX OUTPUT POWER BRIDGED MODE

4 ohms	700
8 ohms	700
16 ohms	700

POWER AND THERMAL 115 V

Idle Power	30W
Idle Current Draw	0.3A
Idle Thermal loss	102 BTU/h
1/8 Power @ 4 Ohm Power	185W
1/8 Power @ 4 Ohm Current Draw	1.6A
1/8 Power @ 4 Ohm Thermal loss	341 BTU/h

POWER AND THERMAL 230V

Idle Power	30W
Idle Current Draw	0.15A
Idle Thermal loss	102 BTU/h
1/8 Power @ 4 Ohm Power	185W
1/8 Power @ 4 Ohm Current Draw	0.8A
1/8 Power @ 4 Ohm Thermal loss	320 BTU/h

WEIGHTS & DIMENSIONS

Unit Dimensions	483 x 44.5 x 358 mm
Shipping Dimensions	560 x 120 x 560 mm
Unit Weight	5 kg – 11 Lbs
Shipping weight	6.5 Kg – 14.5 Lbs

Speakers

The entire Install AUDIOFOCUS range

Software

SCiO
Connect & Control your amplifiers

AUDIOFOCUS SCiO amplifiers can be securely monitored and controlled anytime, anywhere over the network.

Our intuitive Web UI network manager is web-based, eliminating the need for software downloads, and allows multiple amplifiers to be managed from your preferred device.

The network manager offers the comprehensive processing options you would expect from a high-end system controller.

For more detailed information **please visit the AUDIOFOCUS SCiO page.**

Contact & Links

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