

Murraypro AUDIO



**UNIVERSAL INTERFACE UNIT offering up to 24 channels
BAL>BAL, UNBAL>UNBAL, BAL>UNBAL & UNBAL>BAL
in 1U, each buffer with individual $> \pm 12\text{dB}$ gain range.**

The Murraypro OCTAL BUFFER is an extremely flexible audio buffer designed for general interface use in the Broadcast Industry. The Unit has been designed to facilitate the interface of virtually any balanced or unbalanced audio source (especially at non-standard levels), with virtually any unbalanced or balanced destination; ie DVD, CD, U-Matic, VHS, etc to the balanced "real world".

Each Cat228 Board has 8 identical buffers, each of which is completely independent. The 1U Frame can hold up to 3 Cat228s, giving the possibility of **fully interfacing 6x Stereo Rec/PB VTRs in one Rack Unit**, for example.

The gain of each channel may be varied over a range of approximately $\pm 16\text{dB}$ whilst the card is fitted within the 1U frame. To reduce the risk of unwanted "screwdriver drift" in service, the cards are protected by a removable front panel, permitting access to the multi-turn gain adjusting resistors which enable levels to be set to within a fraction of a dB. Units are normally supplied with their preset gains set for unity, but may be ordered from Murraypro with gain pre-aligned for some different value.

Individual gain controls for up to 24 channels, protected by removable front panel.



The low distortion Buffers, which may be used balanced or unbalanced as required, are ac coupled and have a high input impedance and a wide frequency response. The buffer amplifiers may be cross-wired to perform mixing, or even a matrix function, for example converting L & R inputs to M & S outputs, or *vice versa*. Matrix balance in this mode can exceed 50dB.

Audio inputs and outputs from the buffer are carried on identical "D-25" type connectors. Murraypro supplies mating solder-bucket connectors and screw-lock covers. These are the preferred connector type since the full flexibility of the Octal Buffer is always maintained, whilst enabling the use of cost effective IDC wiring

UNIVERSAL AUDIO BUFFER

technology within the Frame. We always recommend that unbalanced inputs are wired *as if they were balanced*, ie with screened twin cable from the source, permitting the common mode rejection ratio of the balanced input amplifiers to be used to full advantage, for hum reduction on the input line.



SPECIFICATION

Buffer card, Cat228

CHANNELS	8/16/24	identical channels. 1,2 or 3 cards fitted per 1 U Frame
INPUT:	Balanced or	Din 41612 Hi Z balanced
	Unbalanced	-10dBV.7 > +0dBV.7 nominal levels
	CMRR	40 dB nominal minimum, for balanced input max 10v CM signal, with reduced headroom
OUTPUT	Coupling	Ac, ± 50 v maximum, dc + signal
	Level	0dB ± 0.1 dB nominal, balanced
	Insertion gain	$> \pm 12$ dB nominal
	Freq resp	-1dB nominal @ 40KHz -3dB nominal @ 10Hz
	Distortion	0.1% nominal max
	OP impedance	50 ohms/leg nominal
ADJUSTMENT	OP current	± 10 mA nominal
	Short circuit	Unlimited duration
	Gain	20 turn resistor, accessible through the front cover.
HEADROOM	Max	+26dB, bal IP or OP
MATRIX	Balance	2 buffers, cross coupled, >-40dB
POWER, frame	Ac	<5 VA @ 230V 50Hz
Module	Front	482W x 44.5H
	Depth	220mm
INTERFACE	Connector D-25, male on rear panel	

± 16 dB gain

**1 of 8, IDENTICAL
BUFFER CHANNELS
per Cat228 Card**

Balanced or
unbalanced,
as required

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unbalanced,
as required

Note: the figures in this specification are typical, and given for guidance only and are not guaranteed.

Murraypro can provide Certification to Special Order

Murraypro
cutting cost, *not* corners

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