

Digital Cellcast : Digital Cellcast

The Digital Cellcast is designed to use the digital GSM and CDMA cellphone networks found worldwide. It provides an easy-to-use, versatile high performance mixer/cellphone combination that is perfect for sports remotes. The Digital Cellcast, operates as a typical mobile telephone and allows you to do remotes when you don't have a landline or can't do an RF link. Got a POTS landline at the remote site? The Digital Cellcast can connect with that, too! In either cellular or POTS mode, simply dial over your selected network and connect to a landline phone at your studio, which is connected to your audio using a hybrid or coupler.



MICROPHONE SYSTEM

Mixing channels:

4 channels, monophonic, rotary controls

Inputs:

4 inputs, active balanced, -50 dBu to -65 dBu input level

Connectors:

XLR female

HEADPHONE SYSTEM

Outputs:

4 outputs, monophonic, requires 20 ohm minimum headphone impedance

Connectors:

1/4 inch phone jack

LINE INPUT/OUTPUT SYSTEM

Line input:

Monophonic, active-balanced, -30 dBu to +10 dBu; -24 dBu input required for nominal output level

Line input connector:

XLR female

Line output:

Monophonic, unbalanced, -10 dBu output with a nominal microphone input level

Line output connector:

1/4 inch phono jack

PROGRAM AUDIO

Note these specifications are for the Digital Cellcast audio mixer. Cellular carrier networks typically limit the upper end audio to 3500 Hz.

Automatic gain control:

Enabled/disabled via internal jumper. Unit delivered with AGC enabled. AGC is typically enabled when Digital Cellcast is used for telephone broadcast and typically disabled when used only as a mixer.

Signal-to-noise ratio:

-35 dBu input level measured at input of telephone speech network

AGC disabled:

-70 dB, 50 Hz to 10 kHz

AGC enabled:

-63 dB, 20 Hz to 10 kHz

Frequency response:

-35 dBu input level measured at input of telephone speech network

AGC disabled:

100 Hz to 10 kHz, ± 0.75 dB,

AGC enabled:

100 Hz to 10 kHz, ± 0.5 dB

Distortion:

-35 dBu input level measured at input of telephone speech network

AGC disabled:

0.05% or less, 100 Hz to 10 kHz

AGC enabled:

0.3% or less, 100 Hz to 10 kHz

TELEPHONE/CELLULAR SYSTEM

Pots line:

Electronic hybrid powered by telephone line

Pots line connector:

RJ11 jack

Cellular system:

OEM cellular telephone supporting CDMA and GSM formats

Cellular antenna connector:

Male TNC

Cellular antenna supplied:

External, magnetic mount with 12 feet of cable

Dialing pad:

12 standard keys, 4 remote control keys, DTMF burst

AVAILABLE CELLULAR SERVICE TYPES

Service type:

GSM 850

Transmit Frequency:

824 to 849 MHz

Receive frequency:

869 to 894 MHz

Maximum output power:

33 dBm (2 watt)

Service type:

GSM 900

Transmit frequency:

890 to 915 MHz

Receive frequency:

935 to 960 MHz

Maximum output power:

33 dBm (2 watt)

Service type:

GSM 1800

Transmit frequency:
1710 to 1785 MHz

Receive frequency:
1805 to 1880 MHz

Maximum power output:
30 dBm (1 watt)

Service type:
GSM 1900

Transmit frequency:
1850 to 1910 MHz

Receive frequency:
1930 to 1990 MHz

Maximum output power:
30 dBm (1 watt)

Service type:
CDMA 800

Transmit frequency:
824 to 849 MHz

Receive frequency:
869 to 894 MHz

Maximum power output:
23 dBm

Service type:
CDMA 1900

Transmit frequency:
1850 to 1910 MHz

Receive frequency:
1930 to 1990 MHz

Maximum output power:
12 dBm

CONTROLS AND MONITORING

Metering:

16 segment, VU LED Bargraph

Reference:

0 VU = -60 dBu input

Range:

-80 dBu to -57 dBu

Program/cue audio control:

Controlled at each mixing channel by illuminated front-panel switches

User interface:

Control:

Provided by 4 illuminated, front-panel switches

Display:

Two-line, 20 segment LCD display

POWER

Power requirement:

15 Volts DC @ 1 A nominal, 1.5 A peak

Included External Power Supply:

AC input:

100 to 240 V AC 50/60 Hz

DC Output:

15 V @ 2.7 A

Fuses:

Two, internal, auto-resetting

Connector:

Two, 2-pin DIN-type connectors

Included external battery:

Connects to unit using one of the power supply connectors

DC output:

12 V @ 7 A

Battery life:

Up to 4 hours operation from full charge

Battery charging time:

Approximately 8 hours

PHYSICAL

Width:

13.3 inches (33.8 cm)

Depth:

10.5 inches (26.7 cm)

Height:

4.6 inches (11.7 cm)

Weight:

Approximately 6 lbs (2.7 kgs)

ENVIRONMENTAL

Operating temperature:

+32° F to +110° F (0° C to +43° C)

Regulatory:

FCC Part 68, FCC Part 15, DOC, designed to Meet CE