Ocelot 3GEN

3Gbps Matrix Modules

New for 2009 is a SMPTE 424M compliant, 3G-SDI Multi-Rate module for signals from 143Mbps to 3Gbps available for a standard Ocelot chassis frame in matrix sizes of 16X8 or 16X16. This module uses BNC connectors for signal I/O and occupies four slots of the Ocelot frame. **Ocelot 3GEN** configurations are available as 1RU stand-alone routers, with or without audio modules installed. Since the **Ocelot 3GEN** module installs in any standard frame with four open slots, it is possible to upgrade existing Ocelot routers for 3G, or to configure a router specific for your installation requirements.

All inputs feature auto-equalization; and auto-rate sensing and re-clocking capability is standard on all outputs. DVB-ASI is fully supported on every path. The rear panel reference input uses a standard 75 Ohm BNC connector and accepts analog black burst or analog composite sync in NTSC or PAL formats. **Ocelot 3GEN** can be controlled with all existing Ocelot control panels, or using QuStream 3500OPRO or PERC2000 system controllers and remote panels for full compatibility with most existing PESA or QuStream installations.

Ocelot 3GEN is the perfect add-on to existing PESA or QuStream systems for providing 3G, 1080P routing capability to an existing Ocelot system, or to virtually any other PESA/QuStream installation. The power supply for the **Ocelot 3GEN** is internal to the chassis frame, and a second power supply slot allows installation of an optional redundant power supply.

Features

- 1RU Frame supports up to 16 inputs and 16 outputs
- Available as 16x8 or 16x16
- Auto-EQ on all inputs and Auto re-clocking on all outputs
- Supports SMPTE 259M, SMPTE 292M and SMPTE 424M to 3Gbps
- Compatible with existing analog and SD Ocelot installations
- Can be added to existing 3500PRO and PERC2000 systems

Ocelot 3GEN Series Router Specifications

Digital Video Specifications

INPUTS/OUTPUTS

Number	16 inputs, 16 or 8 outputs
Type	Standard 75 Ohm, self-terminating, unbalanced BNCs with auto-EQ. conforming to SMPTE259M, SMPTE292M and SMPTE424M.
Return Loss	≥15dB 1MHz to 1.5GHz; ≥10dB, 1.5GHz to 3GHz.
Equalization	300m auto-equalization Belden 1694A or equivalent at 270Mbps.; 100m auto-equalization Belden 1694A or equivalent at 1.5Gbps; 80m auto-equalization Belden 1694A or equivalent at 3Gbps
Level	800mVpp+/-10%

SIGNAL SPECIFICATIONS

Rise/Fall	≤ 600ps +/-10% SD SMPTE259M; ≤ 270ps HD SMPTE292M; ≤ 135ps 3G SMPTE424M.
Overshoot	≤ 10% of amplitude max.
Alignment Jitter	≤ 0.2 UI from 100kHz to 150MHz SMPTE259M or SMPTE292M; ≤ 0.3 UI from 150MHz to 300MHz SMPTE424M.
Timing Jitter	≤ 1.0 UI from 10Hz to 100kHz SMPTE259M or SMPTE292M; ≤ 2.0 UI from 10Hz to100kHz SMPTE424M.
Operational Modes	AUTO, BY-PASS.
Reference Inputs	Two independent 75 ohm BNCs, 0.5Vpp to 2.0Vpp;
PAL, or NTSC	
Data Rates	143Mbps to 3Gbps
Form Factor	1RU

Environmental & Miscellaneous

Control	Accepts P2 Control Protocol with small scale system controller; Accepts single or dual small scale system controller. Supports single-bus, multi-bus and XY control panels, one mounted locally and others available remotely over P2.
(Serial 422 PRC I/F)	4-wire, full duplex, multi-drop, serial RS422 port capable of accepting QuStream/PESA PRC control protocol.
AC Input Connections	Wall transformer w/ 3-pin two-part DC power connector
Input Voltage	130 VAC or 240 VAC, 47-63Hz
Operational Temp	0-40 degrees C
Operational Humidity	90% Non-condensing

Ocelot Ordering Configurations

Video — **Video modules are available for analog, analog wideband, SD-SDI, HD-SDI and 3G SDI**

Audio — **Audio modules are available for mono, stereo, and dual-channel analog; and AES-EBU**

A/V — **In many applications, combination of video and audio modules may be installed in the same 1RU chassis**

*Many configurations available. Consult your QuStream rep for more details.