

IQDMSES

Multi-standard (PAL/PAL-N/ PAL-M/NTSC/SECAM) Encoder with Synchronizer - 12 bit

The IQDMSES provides full broadcast quality serial 4:2:2 to composite analog encoding. Full genlock and gamut limiter as standard. A 12-bit oversampled DAC ensures highest quality reconstruction.

Does this module suit your application?

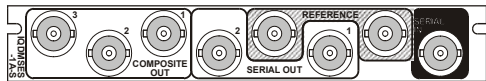
- PAL/NTSC/NTSC-J/PAL-M/PAL-N/SECAM broadcast quality encoding
- 12-bit oversampled, DAC with 601 quality reconstruction
- Full genlock and minimum delay operation
- Full Frame Synchronizer
- Gamut limiting using optimal hue and intensity modification
- Internal pattern and VITS generation
- Pass or blank vertical interval data
- NTSC pedestal control
- Tolerant of SMPTE RP168 serial switching
- Selectable SECAM Bottles
- SECAM Genlock to PAL switch or SECAM
- SECAM dynamic notch
- Up to 5 x composite outputs
- Up to 2 x serial 4:2:2 relocked outputs

- EDH checking on SDI input
- RollCall™ compatible
- RollTrack™ link to tracking audio delays

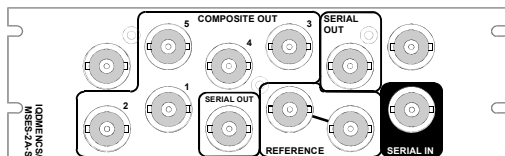
Why should you choose this module?

- Broadcast quality encoding for PAL/NTSC/NTSC-J/PAL-M/PAL/SECAM broadcast applications
- Full genlock and minimum delay functions ensure accurate timing of composite video
- Vertical interval data can be passed or blanked as required by the downstream system
- RollCall ensures the control capability required by any systems
- 12-bit oversampling DAC ensures optimum analog quality
- Gamut limiting using optimal hue and intensity modification

Order codes for IQH3A/1A enclosures

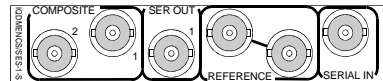


IQDMSES-1A-S 12-bit PAL, PAL-N, PAL-M, NTSC, SECAM Encoder with synchronizer. 3 composite outputs & 2 SDI outputs.



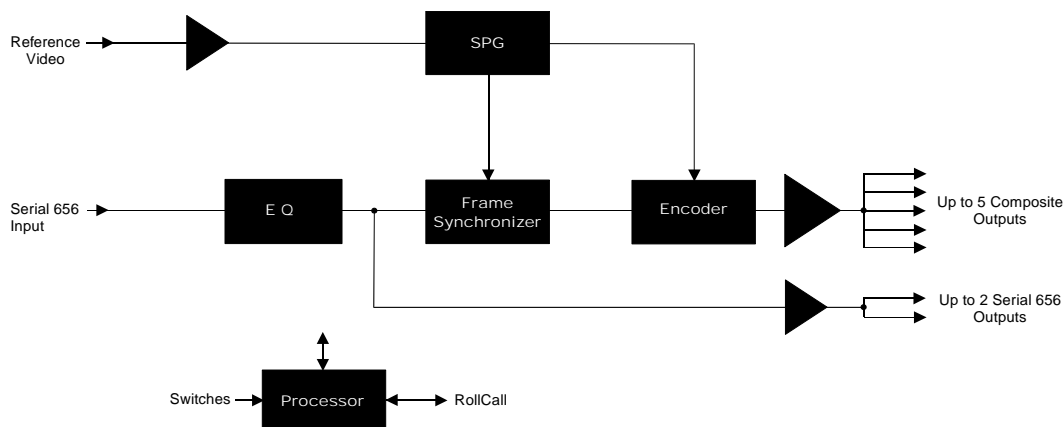
IQDMSES-2A-S 12-bit PAL, PAL-N, PAL-M, NTSC, SECAM Encoder with synchronizer. 5 composite outputs & 2 SDI outputs.

Order codes for other enclosures



IQDMSES-1-S 12-bit PAL, PAL-N, PAL-M, NTSC, SECAM Encoder with synchronizer. 2 composite outputs & 1 SDI output.

For more details on enclosure types please refer to the Frames/Enclosures section



IQDMSES

Multi-standard (PAL/PAL-N/ PAL-M/NTSC/SECAM) Encoder with Synchronizer - 12 bit

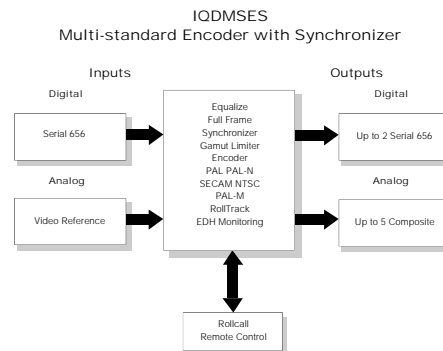
Inputs & Outputs

Signal Inputs

Serial Digital..... 1 x Equalized SDI
Standards..... SMPTE 259M-C-1997
Reference input Composite or black burst

Signal Outputs

Serial Digital..... Up to 2 x relocked SDI
Standards..... SMPTE 259M-C-1997
Composite..... Up to 5 x encoded outputs
Standards..... PAL/NTSC/NTSC-J/PAL-M
/PAL-N/SECAM



Card Edge & RollCall Controls

Card Edge Controls (also available via RollCall)

Standard - PAL/NTSC/NTSC-J/PAL-M
/PAL-N/SECAM
Test pattern select..... Black, Color bars, various test lines
VITS Insert..... On/Off
Vertical Data..... Pass/Strip
Genlock Mode..... Internal (Min Delay) lock/ Zero ScH Lock
Genlock H-Phase offset..... ±1.9 lines
Genlock SC Phase Offset 360°
SECAM Notch..... On/Off
SECAM Carrier On/Off
SECAM Pre-Filter ON/OFF
NTSC Pedestal..... On/Off
Blanking Width Normal/Legal minimum to CCIR 624

RGB Limiter On/Off
Gain..... ±0.5 dB
Preset Unit..... On
EDH..... Present : error second : error hour

Indicators

Power Supplies OK
No Input
No Reference
ScH Error Output or Reference ScH error
Synchronizer Delay Flashes if >1 ms
EDH..... Present, Second Error, Hour Error.

Functions Available via RollCall™ Only

Logging Input change/EDHScH Error
EDH Monitor..... Show/Reset Statistics
RollTrack™ Compatible

Specifications

Reference Input Standard..... 525/625 (same standard as D1 input)
Composite or Black Burst Reference Level
Standard level ±3 dB
Serial Input Return Loss..... Better than -15 dB to 270 MHz
Serial Output Return Loss..... Better than -15 dB to 270 MHz
Composite Encoding 12-bit
Y Frequency Response 5.5 MHz ± 0.05 dB
U/I and V/Q Frequency Response
<-3 dB @ 1.3 MHz >20 dB at 4.0 MHz
Differential Gain Better than 0.5%
Differential Phase Better than 0.2°
ScH Phase 0° ±2°

Composite Output Return Loss
Better than 35 dB to 5.8 MHz
Delay (minimum delay mode)
<4 μs

Power Consumption

Module Power Consumption 7.5 W max

EMC Performance Information

Environment Commercial and light industrial E2
Peak Mains Inrush Current following a 5 second mains interruption
No mains input
Performance Information No performance degradations or cable length limitations