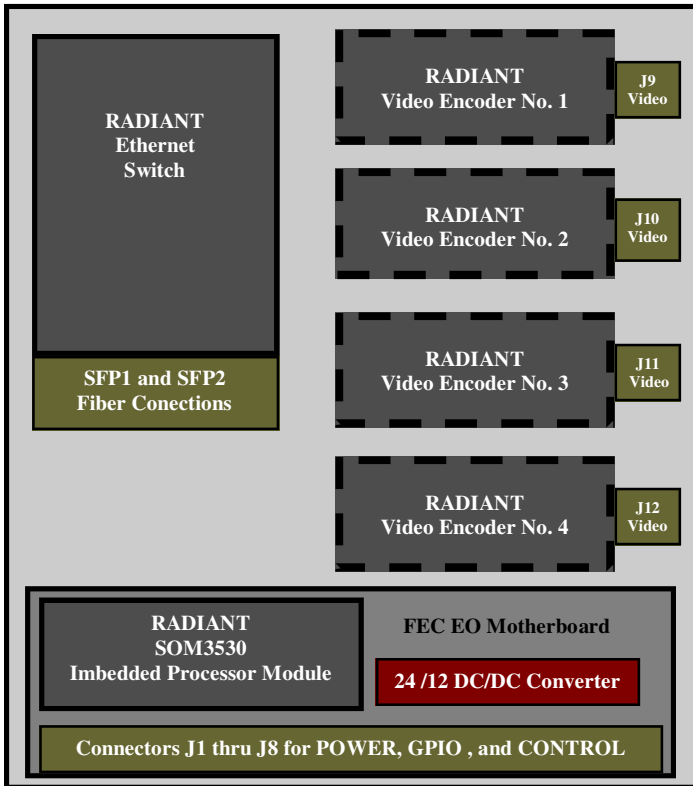


**DESCRIPTION**

Radiant Communications Corp Field Equipment Cabinet Electro-Optical (FEC EO) Subsystem is designed to provide superior migration of your analog signals onto a drop and insert digital platform. The FEC EO is designed to accommodate up to four video signal inputs, sixteen digital inputs and four digital outputs along with two RS-232/422/485 bi-directional data circuits. This is all transmitted over a built-in fault tolerant industrial managed 10/100 Ethernet multi-port fiber switch.

The FEC EO provides high quality de-interlaced video at 30/25 frames per second which provides outstanding services capable of integrating into many standard software monitoring packages available on the market today.

With the flexibility of multi protocol bi-directional serial data available on the FEC the user can easily integrate into existing or new pan/tilt/zoom control systems. With the available sixteen contact closure inputs and four relay outputs the user can easily integrate into existing perimeter detection systems which can seamlessly be integrated into a variety of standard software packages.



## ▶ **FEC-EO** Field Equipment Cabinet Electro-Optical Subsystem

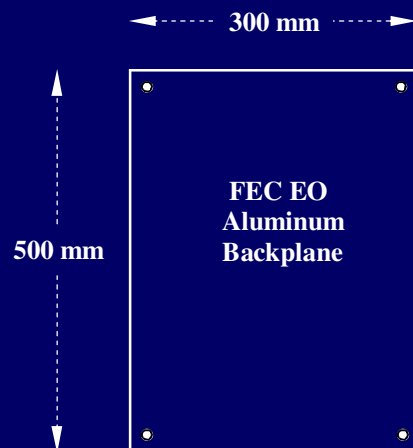
**▶ BENEFITS**

- Cost effective, integrated, single box solution
- High Quality de-interlaced video at 30/25 fps.
- Provides instant Serial to Ethernet conversion.
- Driven by High Performance Network Switching Technology

**▶ FEATURES**

- Ideal for surveillance and remote monitoring
- Instant Event messaging by TCP/UDP/SNMP trap
- Provides support for RS-232/422/485 serial to Ethernet conversion.
- Simultaneous Motion JPEG and MPEG-2 streams in resolutions up to 704 x 576.
- Designed for extreme temperature ranges up to 65°C
- Imbedded processor allows for remote software programming and configuration updates.

**▶ OUTLINE & MOUNTING**



**Radiant  
Communications  
Corporation**

Phone: 516 798 8084  
Fax: 516 798 7306  
E-mail: sales@rccny.com  
www.rccfiber.com

5512 Merrick Rd  
Suite 123  
Massapequa, NY 11758  
USA 8/2009

# ▶ FEC EO - Field Equipment Cabinet Electro-Optical

## SPECIFICATIONS

### Video Server

#### Channels

Up to 4 channels

#### Compression

Motion JPEG, MPEG2 (ISO/IEC 13818-2)

#### Resolutions

4CIF, 2CIFExp, 2CIF, CIF, QCIF  
Max 704x480 (NTSC), 704x576 (PAL)  
Min 160x120 (NTSC), 176x144 (PAL)

#### Frame Rate

Motion JPEG: 1 fps min. @4CIF  
MPEG2: 15 fps min. @ 4CIF

#### Video Streaming

Simultaneous Motion JPEG & MPEG-2, Controllable frame and bit rates.

#### Network Protocols

Various protocols supported

### Serial Server

#### Channels

2 channels

#### Serial Standards

RS-232 / RS-422 / RS-485-2w / RS-485-4w

#### Serial Communications

Data Bits: 5, 6, 7, 8; Stop Bits: 1, 1.5, 2  
Parity: None, Even, Odd, Space, Mark  
Flow Control: RTS/CTS (RS-232 only)  
Baud Rate: 50 bps to 230 Kbps, (115Kbps for RS-232)

#### Serial Signals

RS-232: TxD, RxD, RTS, CTS, GND  
RS-422: Tx+, Tx-, Rx+, Rx-, GND  
RS-485-4W: Tx+, Tx-, Rx+, Rx-, GND  
RS-485-2W: Data+, Data-, GND

#### Connector

5-pin removable screw terminals

#### Network Protocols

Various protocols supported

### GPIO Server

#### Channels

Inputs: 16  
Outputs: 4

#### Input Characteristics

Two wire input  
Dry contact: logic 0 = GND, logic 1 = OPEN  
Wet contact: logic 0 < 3VDC, logic 1 = 10 to 30 VDC

#### Output Characteristics

Two wire output  
Sink type, 45 VDC, 200 mA

#### Indicators

LED indicators provided for each input and output

#### Network Protocols

Various protocols supported

### Ethernet Switch

#### Interface

RJ-45 Ports: 6 10/100/1000Base-TX Ethernet ports  
Fiber Ports: 2 100/1000 combo ports - TX (RJ45) or SFP (100 or 1000)  
Redundant X-Ring recovery time < 10 ms on full load  
LEDs: Link/Activity, Full duplex/Collision, Power x3, Fault, R.M.  
DIP Switch: X-ring, Master, Coupler, Reserve  
Alarm: Relay output for port break and power failure

#### Standard Compliance

IEEE 802.3 10Base-T Ethernet, IEEE 802.3u 100 Base-TX Fast Ethernet,  
IEEE 802.3x Flow Control and Back-pressure, IEEE 802.1p Class of Service,  
IEEE 802.1Q VLAN, IEEE 802.1D Spanning Tree Protocol (STP), IEEE  
802.1W Rapid Spanning Tree Protocol (RSTP)

#### Network Protocols and Switching Architecture

CSMA/CD, Store and Forward

#### Environmental:

Temperature (operating): -10C to +65C  
Temperature (storage): -40C to +85C  
Humidity (operating): 5% to 95% (non-condensing)

#### Power Consumption:

3 Amps Max at 24 VDC

## ORDERING INFORMATION

PART NUMBER	DESCRIPTION
FEC-EO-0	Field Equipment Cabinet Electro-Optical Subsystem with no Video Channel
FEC-EO-1	Field Equipment Cabinet Electro-Optical Subsystem with 1 Video Channel
FEC-EO-2	Field Equipment Cabinet Electro-Optical Subsystem with 2 Video Channels
FEC-EO-3	Field Equipment Cabinet Electro-Optical Subsystem with 3 Video Channels
FEC-EO-4	Field Equipment Cabinet Electro-Optical Subsystem with 4 Video Channels

#### Note:

- Due to product enhancements, specifications are subject to change without notice



**Radiant  
Communications  
Corporation**

Phone: 516 798 8084  
Fax: 516 798 7306  
E-mail: sales@rccny.com  
www.rccfiber.com

5512 Merrick Rd  
Suite 123  
Massapequa, NY 11758  
USA 8/2009