

# 7800R4x2-3G

## 4x2 3G/HD/SD-SDI Smart Bypass Protection Router



The 7800R4x2-3G is designed to provide confidence and high availability of any 3G/HD/SD-SDI facility signals.

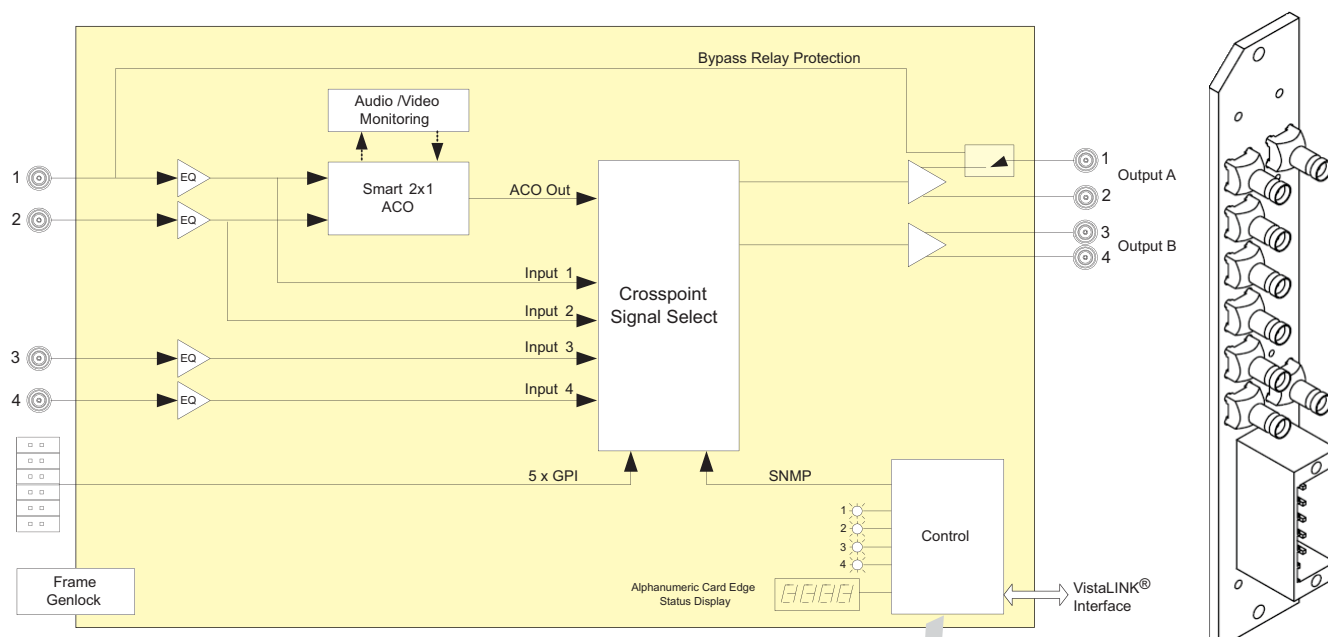
### This device:

- Provides four source inputs and four outputs (2 program and 2 preview)
- Provides automatic changeover protection between inputs 1 & 2
- Provides additional changeover protection for emergency inputs 3 & 4
- Provides real time preview of any input
- Provides essential audio and video fault monitoring for changeover criteria
- Provides a backup bypass relay protection
- Configuration via SNMP frame controller

Based on award patented audio and video monitoring technology, this device can manually or automatically switch from the primary input to the backup input.

### ►Features & Benefits

- Four 3G/HD/SD-SDI inputs (primary, backup and two additional emergency inputs)
- Four outputs (2 program and 2 preview outputs)
- Bypass relay protection between primary input 1 and program output 1
- Automatic smart switch based on essential audio and video monitoring
- Manual override to backup inputs
- Switch control via GPI, network control panel and SNMP
- Real time VistaLINK® monitoring and trending
- High density approach offers 14 modules within 3RU



### ►Specifications

#### Serial Video Inputs:

Number of Inputs: 4 Auto detect  
Standard: SMPTE 259M (525/625)  
SMPTE 292M (1080i/720p)  
SMPTE 424M (1080p)  
Connector: Din 1.0/2.3  
Cable Equalization: Automatic to >300m @270Mb/s  
>150m @1.5 Gb/s  
>100m @3 Gb/s  
Belden 1694A cable (or equivalent)  
Return Loss: >20dB up to 270MHz  
>15dB up to 1.5GHz  
>10dB up to 3GHz

Rise and Fall Time: 900ps nominal at 270Mb/s  
200ps nominal at 1.5Gb/s  
<135ps at 3Gb/s  
Overshoot: <10% of amplitude  
<0.2UI at 1.5Gb/s  
<0.3UI at 3Gb/s  
**Genlock:**  
Type: Analog 525 or 625, Tri Level HD  
Connector: BNC per IEC 61169-8 Annex A  
(frame reference selectable only)  
Impedance: 75Ω termination

#### Electrical:

Voltage: +12V DC  
Power: 16W  
EMI/RFI: Complies with FCC Part 15  
Class A EU EMC Directive

#### Physical (Number of slots):

7800FR : 1  
7800FR-QT : 1

#### Serial Video Outputs:

Number of Outputs: 4 (2 program and 2 preview)  
Standard: Same as input  
Connector: Din 1.0/2.3  
Signal Level: 800mV Nominal  
DC Offset: 0V +/- 5V

#### General Purpose Inputs:

Number of Inputs: 5  
Type: Opto-isolated, active low  
Internal pull-ups +5V or +12V  
Connector: 2x6 Straight Box  
Terminal Strip (included)  
Signal Level: Closure to ground

### ►Ordering Information

**7800R4x2-3G** 4x2 3G/HD/SD-SDI Smart Bypass Protection Router (requires 7700FC for configuration)

**Enclosures**  
**7800FR**  
**7800FR-QT**

3RU multiframe which holds up to 15 single slot modules  
3RU quiet multiframe which holds up to 15 single slot modules

**Ordering Options:** Rear plate must be specified at time of order  
Eg: 7800R4x2-3G+3RU

**Rear Plate Suffix**  
**+3RU**

3RU rear plate for use with 7800FR Multiframes