

1.1 Monitoring and Test System



FCS1000

DVB-ASI/SDI Monitoring and Test System

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TIMS System
Channel Summary
Channel 1
Channel 2
Channel 3
Channel 4
Channel 5
Channel 6
Channel 7

Channel	Service Name	Status	Event
1 (S)	Orange0	Lock Error	Loss
2 (S)	Orange1	Lock Error	Loss
3 (S)	Orange2	Lock Error	Loss
4 (S)	Orange3	Lock Error	Loss
5 (A)	Orange4	Lock Error	Loss
6 (A)	Orange5	Lock Error	Loss
7 (A)	Orange6	Lock Error	Loss
8 (A)	Orange7	Lock Error	Loss

Date / Time	Description
Thu Apr 6 17:41:31 2006	Channel: 02 Loss Of Synchronisation
Thu Apr 6 17:29:12 2006	Channel: 03 Loss Of Synchronisation
Thu Apr 6 17:29:12 2006	Channel: 04 Loss Of Synchronisation
Thu Apr 6 18:08:28 2006	Channel: 06 Loss Of Synchronisation
Thu Apr 6 18:08:28 2006	Channel: 07 Loss Of Synchronisation

Chan	Mode	Enable	TR	AP Err	AP EDA	PF Err	PF EDA	ANC Err	ANC EDA	UES	IDA	Video Block	Freeze Frame	Video Err	Audio SDI	Audio Group	Audio Parity
1	SDI	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5	ASI	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

http://66.209.105.235 - Configuration Switching Details - Microsoft Internet Explorer

Configuration Switching Details - Channel 1

Select Day: Thursday

Time	Sun	Mon	Tue	Wed	Thu	Fri	Sat
00:00							
01:00							
02:00							
03:00							
04:00							
05:00							
06:00							
07:00							
08:00							

Profile Switch 1 Definition

Enable:

Switch To: Off

Switch Time: 00:00:00

Profile Switch 2 Definition

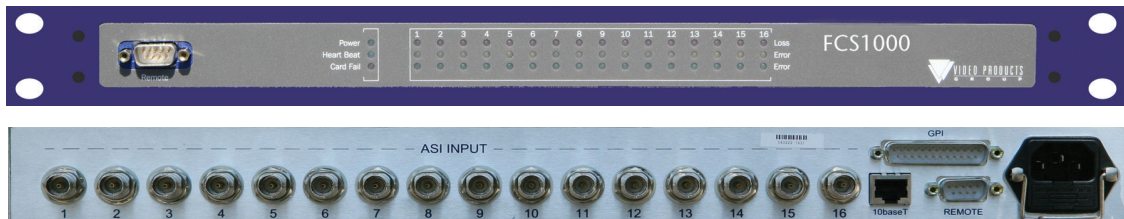
FCS1000 provides a high-density, cost-effective QoS monitoring solution.

Each input has a 270Mbps interface, allowing monitoring of either DVB-ASI signals or serial digital video signals. Service management is provided via an embedded PC-based processor which provides a full Simple Network Management Protocol (SNMP) interface and Web browser display. All alarm conditions can be mapped into SNMP traps as well as individual GPI outputs for local alarms.

- In-service monitoring for up to 16 channels in 1RU
- DVB-ASI or SMPTE 259 SDI capable
- Checking of all DVB input streams to ETR 101 290
- Checking to SMPTE RP165 on SDI input streams
- High-impedance passive 'BNC Tee' for each channel
- Comprehensive SNMP traps and informs
- Separate GPI contact alarms for each channel
- Full internal diagnostics
- ASI stream handling from 16Kbps – 216Mbps
- 10/100baseT Ethernet management port
- Serial port communications for local diagnostics and ISDN/PSTN adapters
- Powerful alarm filtering and logging
- QoS profile presets and weekly scheduling
- Remote uploads of new schedules and firmware upgrades

FCS1000

DVB-ASI/SDI Monitoring and Test System



OPERATION

Browser based, multi-channel, menu-driven QoS monitoring system. Configurable for SDI or ASI in groups of four. A set-up screen for each group of four allows for detailed monitoring from top level alarms and faults, right down to fine-grain details of SMPTE RP165 or ETR 101290.

Up to four different program profiles can be pre-loaded for each channel and a scheduler screen allows for one full week of profile scheduling.

An alarm conditioning/filtering/logging screen provides for alarm persistence and hold time filtering as well as criticality assignment and threshold settings. Individual channel SNMP informs are generated and sent based on the settings of this screen.

DVB-ASI MONITORING

ETR 101 290	SMPTE 259M SDI MONITORING SMPTE RP165
Signal present	Signal present
TS sync loss	EDH-Missing
TS sync byte errors	EDH-Packet error
PAT error	Active Picture (AP) EDH error here
Continuity count error	AP error detected already
PMT error	AP unknown error status
PID error	Full Field (FF) error detected here
PCR error / accuracy	FF error detected already
CAT error	FF unknown error status
NIT error	Ancillary (ANC) error detected here
SDT error	ANC error detected already
EIT error	ANC unknown error status
RST error	Other alarms
TDT error	Video black
RS FEC Error	Freeze frame
Continuity count	Audio (group error, silence, phase and overload)

POWER AND ENVIRONMENTAL

Power	Automatic 110-240 V AC, IEC connector
Power Consumption	0.15A , 240VAC, <35W
Cooling	Forced via side intake and exhaust vents
Operating Temperature	Between 0 °C and 50 °C
Operating Humidity	10% to 90% (non-condensing)

ELEMENT MANAGEMENT

Features SNMP and Web browser interfaces that provide monitoring and/or configuration of the status, alarms and controls. Some of the features are:

- SNMP V2c ready
- Telnet based remote and secure login
- Remote firmware downloads

CONNECTOR TYPES

ETHERNET

Telnet	Remote Linux system configuration
FTP	Firmware downloads
HTTP	Web browser access
SNMP	Element management
Connector	RJ45 10Mbps
No. of Connectors	Single access (16 channels)
Password Levels	Administrator/User
Operating Systems	Windows 98, 2000 Pro, XP Pro and Linux
Web browser	Internet Explorer 6.0 Netscape Navigator 7.2

RS232 / EIA232

For Linux system configuration (two connectors, front and rear access)

Connector	DB9 (male)
No. of Connectors	2
Baud Rate	Up to 115200, 1 stop bit, 8 data bits, no parity

GPIO

To interface Ventura chassis with user's equipment

Connector	DSUB-25 pin
No. of Connectors	1, with 16 TTL compatible I/O lines

PHYSICAL

Width	Front panel: 19" EIA standard (483mm) (exc. rack ears: 440m)
Height	1.7" (43mm), 1RU
Depth	19" (484mm) (including rear connectors)
Weight	11lbs. (5kg) (6kg with delivery packing)

ORDERING OPTIONS

FCS1000	Focus Monitoring and Test System (formerly named TIMS)
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