

Protocol-selectable DS3/E3/STS Coax-to-Fiber media repeater extends transmission distances over fiber optics and reduces operational costs with remote end management.

Features and Benefits

Switch Selectable Protocol

- Operates at 45 Mbps (DS3), 34 Mbps (E3) or 52 Mbps (STS-1)
- Line Terminating function for improved management and fault isolation

Management

- Conduct loopback tests, monitor/manage units via GUI-Based iView² or Web Server based iView² V.3.0
- Remote unit supports secure, out-of-band management
- Diagnostic LEDs (LOS, ER, RAI, PRBS)

Supports more fiber choices

- Available for multi-mode or single-mode fiber
- Single-strand fiber versions
- Supports very long fiber distances

Eases Troubleshooting

- Loopback testing modes, plus optional SNMP management and LEDs, assist in diagnosing problems on fiber optic networks
- Support for Alarm Indication Signals (AIS)* for improved fault isolation
- Supports fiber and coax remote loopback control
- Internal test-head function for transmitting and detecting PRBS test patterns.
- LED Line Diagnostics
- Supports Remote Alarm Indication (RAI)**

* AIS is a standards-compliant alarm indication signal sent whenever a loss of signal is detected.

** RAI provides a local LED indication when a fault exists on the equipment at the far end of the optical link.



The iMcV-DS3/E3/STS-LineTerm repeater is perfect for service providers and enterprise campus networks utilizing DS3/E3/STS coaxial circuits. The module enables users to convert coax media to single-mode or multi-mode fiber and extend the distance of data transmissions over networks up to 80 km.

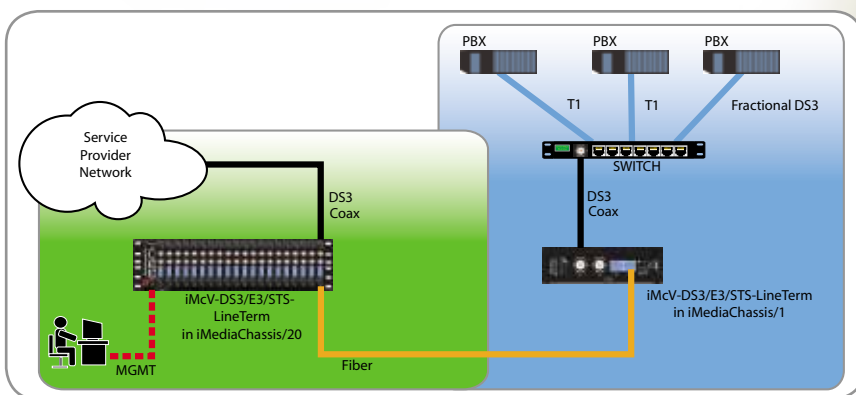
Available with remote management via the fiber port, the iMcV-DS3/E3/STS-LineTerm module enables network managers to conduct loopback testing, to monitor, and to manage units located up to 80 km away. Since IMC Networks' management technology function transparently to the user data, real-time, end-to-end management is provided at all times. Signal Loss conditions are propagated using the standards-compliant AIS signal.

Easily configure and manage converters with the GUI-based iView² and Web Server based iView² V.3.0:

As an SNMP management application, iView² gives network managers the ability to monitor and control IMC Networks' products. iView² runs standalone on Windows NT/XP/2000, as a standalone Java Application for other operating systems, in conjunction with HP OpenView, as a Web Server running under IIS or as a Java Web Servlet. For assistance in selecting the right version of iView² for your operating system, please visit our web site at: www.imcnetworks.com/Products/iView2Installers.cfm

Application Example

iMcV-DS3/E3/STS-LineTerm media converters allow operators to extend the distance of DS3 lines over long distance fiber and allow for remote monitoring of equipment.



Technical Specifications

- Protocol-Selectable — Operates at DS3 (45 Mbps), E3 (34 Mbps) or STS-1 (52 Mbps) protocols
- Supports Alarm Indication Signals (AIS)
- Ability to manage remote unit from host end
- Supports fiber and coax loopback
- Jitter attenuation
- Selectable line build out
- Installs in iMediaChassis or MediaChassis chassis*
- Supports GUI-Based iView² and Web Server based iView² V.3.0
- 50/125µm or 62.5/125µm multi-mode fiber
- 9/125µm single-mode fiber
- Available for single-strand fiber
- Hot-swappable architecture
- ST or SC optical connections

* For DC-powered telco environments, it is not recommended that the iMcV-DS3/E3/STS repeater be installed in an IE-MediaChassis/1. The power source in this chassis is not isolated, and cannot support positive ground reference systems typically used in Telco environments. The IE-MediaChassis/2-DC, MediaChassis/2-DC and the iMediaChassis family are suitable alternatives.

Connectors:

- BNC, and ST or SC
- Includes diagnostic LEDs
- Includes hot-swappable architecture

Shipping Weight:

0.30 lbs (0.11 kg)

Regulatory Approvals:

- FCC Class A
- UL/cUL
- CE

Operating Temperature:

32° to 122°F (0° to +50°C);
5% to 95% (non-condensing),
0 – 10,000 ft. altitude

Storage Temperature:

-13° to +158°F (-25° to +70°C);
5 to 95% (non-condensing)

Standards Compliance:

- ANSI T1.102-1993
- ANSI T1.107-1995
- GR-820-CORE

Fiber Optics Specifications

For each product listed below in the Ordering Information section, the DISTANCE represents an approximate fiber distance based on industry-standard fiber attenuation specifications. Actual distances will vary for each installation. For complete power budgets and information on calculating specific distances, visit www.imcnetworks.com/go/fcs or contact IMC Networks Fiber Consulting Services at 949-465-3000.

Ordering Information

PART NUMBER	DESCRIPTION	DISTANCE
iMcV-DS3/E3/STS-LineTerm BNC/FX Module		
850-14438	iMcV-DS3/E3/STS-LineTerm, BNC/FX-MM850-ST	2 km
850-14439	iMcV-DS3/E3/STS-LineTerm, BNC/FX-MM850-SC	2 km
850-14400	iMcV-DS3/E3/STS-LineTerm, BNC/FX-MM1300-ST	5 km
850-14401	iMcV-DS3/E3/STS-LineTerm, BNC/FX-MM1300-SC	5 km
850-14402	iMcV-DS3/E3/STS-LineTerm, BNC/FX- SM1310/PLUS-ST	40 km
850-14403	iMcV-DS3/E3/STS-LineTerm, BNC/FX- SM1310/PLUS-SC	40 km
850-14404	iMcV-DS3/E3/STS-LineTerm, BNC/FX- SM1310/LONG-ST	40 km
850-14405	iMcV-DS3/E3/STS-LineTerm, BNC/FX- SM1310/LONG-SC	40 km
850-14408	iMcV-DS3/E3/STS-LineTerm, BNC/FX- SM1550/LONG-SC	80 km
iMcV-DS3/E3/STS-LineTerm BNC/SSFX Single-Strand Fiber Module **		
850-14410	iMcV-DS3/E3/STS-LineTerm, BNC/SSFX-SM1310-SC (1550 rcv)	20 km
850-14411	iMcV-DS3/E3/STS-LineTerm, BNC/SSFX-SM1550-SC (1310 rcv)	20 km
850-14412	iMcV-DS3/E3/STS-LineTerm, BNC/SSFX-SM1310/PLUS-SC (1550 rcv)	40 km
850-14413	iMcV-DS3/E3/STS-LineTerm, BNC/SSFX-SM1550/PLUS-SC (1310 rcv)	40 km
850-14414	iMcV-DS3/E3/STS-LineTerm, BNC/SSFX-SM1310/LONG-SC (1550 rcv)	60 km
850-14415	iMcV-DS3/E3/STS-LineTerm, BNC/SSFX-SM1550/LONG-SC (1310 rcv)	60 km

** These products have single-strand fiber technology. Deploy in pairs, or connect to another compatible IMC Networks single-strand fiber product.

For more information go to: www.imcnetworks.com/products/SSFX.cfm

Always deploy iMcV-DS3/E3/STS-LineTerm repeaters in pairs.



IMC Networks
Headquarters
19772 Pauling
Foothill Ranch, CA 92610
TEL: 949-465-3000
FAX: 949-465-3020
sales@imcnetworks.com

IMC Networks
Europe
Herseltsesteenweg 268
B-3200 Aarschot, Belgium
TEL: +32-16-550880
FAX: +32-16-550888
eurosales@imcnetworks.com

IMC Networks
Eastern US/Latin America
28050 U.S. Hwy. 19 North, Suite 306
Clearwater, FL 33761
TEL: 727-797-0300
FAX: 727-797-0331
latinsales@imcnetworks.com

IMC Networks
Fiber Consulting Services
For information call:
TEL: 949-465-3000
1-800-624-1070 (US/CAN)
+32-16-550880 (Europe)
fcs@imcnetworks.com

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