iMcV-T1/E1/J1

Telco Converter Switch Remote Management

RoHS Compliant

iMcV-T1/E1/J1 products are ideal for extending PBX or legacy Telco circuits over fiber optics in the local loop and long-haul applications.

** Module shown in MediaChassis/1-AC, sold separately*

Switch Selectable Protocol

- Operates at T1 (1.544), E1 (2.048) and J1 (1.544) protocols

Remote management

- Conduct loopback tests,
- Monitor/manage units via GUI-Based iView²
- Full bit rate for customer traffic

Easy to configure and manage with GUI-based iView²

- Up and running in less than five minutes
- Easily adjust settings when user requirements change
- Easy upgrades; no user intervention or visits to remote locations required
- Monitor and control all connections

Supports more fiber choices

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

Eases Troubleshooting

- Three loopback testing modes, plus SNMP management and LEDs assist in diagnosing problems on fiber optic networks

The iMcV-T1/E1/J1 modules are physical layer devices that convert twisted pair to fiber and operate at a switch-selectable protocol rate of T1 (1.544), E1 (2.048) and the Japanese J1 (1.544). The iMcV-T1/E1/J1 modules offer more fiber choices and distances because they are engineered to the industry standard 8B/10B PHY encoding.
Available with remote management via the fiber port, the SNMP-manageable iMcV-T1/E1/J1 enables network managers to conduct loopback testing, and monitor and manage units located up to 100 km away at a remote location.

Full bit rate for customer traffic

Since IMC Networks' management technology functions transparently to the frame format, customers will not experience overhead or loss of a data channel typically associated with remote management or SNMP polling. Customer traffic will always be full bit rate: 1.544 Mbps or 2.048 Mbps.

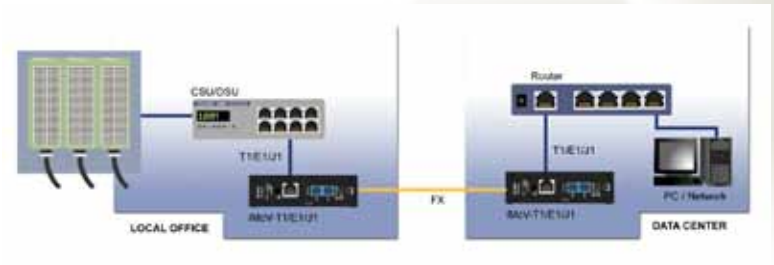
iMcV-T1/E1/J1 products include:

- A line integrity test feature
- Three modes of operation for loopback testing (local, remote and analog loopback)
- The Transmit Data Source diagnostic feature which sends specific patterns of data (transmit all unframed ones; transmit a pattern of zeros, and ones and transmit a Pseudorandom Bit Sequence (PRBS) to determine problems with the cable.

Configure all test modes remotely via iView² SNMP software or locally by manually setting DIP Switches on the units. In addition, iMcV-T1/E1/J1 also includes an internal elastic buffer to remove jitter from transmitted data.

Application Example

iMcV-T1/E1/J1 media converters allow users to link two PBXs, CSUs or routers and extend the distance between the two over fiber.



T1/E1/J1

Technical Specifications

- Protocol-Selectable — Operates at T1/J1 (1.544) and E1 (2.048) protocols
- Includes ability to manage remote unit
- Conduct three types of loopback tests
- Full bit rate for customer traffic
- EGL, Transmit Data Source, Line Encoding and NRZ
- Includes DTE/DCE switch on converter
- Features LinkLoss and FiberAlert
- Installs in any iMediaChassis serues or MediaChassis series
- Supports GUI-Based iView²
- 50/125µm or 62.5/125µm multi-mode fiber
- 9/125µm single-mode fiber
- Available for single-strand fiber
- Connectors: RJ-48 and ST or SC
- Includes diagnostic LEDs
- Includes hot-swappable architecture

Regulatory Approvals:

- FCC Class A
- UL/cUL
- CSA
- CE

Shipping Weight:

0.30 lbs (.11 kg)

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)

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

Always deploy *iMcV-T1/E1/J1* converters in pairs.

PART NUMBER	DESCRIPTION	DISTANCE
iMcV-T1/E1/J1 Module		
850-14198	iMcV-T1/E1/J1,TP/Fiber-MM850-ST	2 km
850-14199	iMcV-T1/E1/J1,TP/Fiber-MM850-SC	2 km
850-14200	iMcV-T1/E1/J1, TP/Fiber-MM1300-ST	5 km
850-14201	iMcV-T1/E1/J1, TP/Fiber-MM1300-SC	5 km
850-14202	iMcV-T1/E1/J1, TP/Fiber-SM1310/PLUS-ST	40 km
850-14203	iMcV-T1/E1/J1, TP/Fiber-SM1310/PLUS-SC	40 km
850-14204	iMcV-T1/E1/J1, TP/Fiber-SM1310/LONG-ST	80 km
850-14205	iMcV-T1/E1/J1, TP/Fiber-SM1310/LONG-SC	80 km
850-14206	iMcV-T1/E1/J1, TP/Fiber-SM1550/LONG-SC	80 km
iMcV-T1/E1/J1 Single-Strand Fiber Module*		
850-14288	iMcV-T1/E1/J1, TP/SSFiber, MM1310-SC	2 km
850-14289	iMcV-T1/E1/J1, TP/SSFiber, MM1550-SC	2 km
850-14290	iMcV-T1/E1/J1, TP/SSFiber-SM1310-SC	20 km
850-14291	iMcV-T1/E1/J1, TP/SSFiber-SM1550-SC	20 km
850-14292	iMcV-T1/E1/J1, TP/SSFiber-SM1310/PLUS-SC	40 km
850-14293	iMcV-T1/E1/J1, TP/SSFiber-SM1550/PLUS-SC	40 km
850-14294	iMcV-T1/E1/J1, TP/SSFiber-SM1310/LONG-SC	60 km
850-14295	iMcV-T1/E1/J1, TP/SSFiber-SM1550/LONG-SC	60 km

PART NUMBER	DESCRIPTION	DISTANCE
iMcV-T1/E1/J1 CWDM Fiber Module		
850-14271	iMcV-T1/E1/J1, TP/Fiber-CWDM-SM1310-SC	80 km
850-14272	iMcV-T1/E1/J1, TP/Fiber-CWDM-SM1330-SC	80 km
850-14273	iMcV-T1/E1/J1, TP/Fiber-CWDM-SM1350-SC	80 km
850-14277	iMcV-T1/E1/J1, TP/Fiber-CWDM-SM1370-SC	80 km
850-14278	iMcV-T1/E1/J1, TP/Fiber-CWDM-SM1390-SC	80 km
850-14279	iMcV-T1/E1/J1, TP/Fiber-CWDM-SM1410-SC	80 km
850-14281	iMcV-T1/E1/J1, TP/Fiber-CWDM-SM1430-SC	80 km
850-14283	iMcV-T1/E1/J1, TP/Fiber-CWDM-SM1450-SC	80 km
850-14284	iMcV-T1/E1/J1, TP/Fiber-CWDM-SM1470-SC	80 km
850-14285	iMcV-T1/E1/J1, TP/Fiber-CWDM-SM1490-SC	80 km
850-14286	iMcV-T1/E1/J1, TP/Fiber-CWDM-SM1510-SC	80 km
850-14287	iMcV-T1/E1/J1, TP/Fiber-CWDM-SM1530-SC	80 km
850-14296	iMcV-T1/E1/J1, TP/Fiber-CWDM-SM1550-SC	80 km
850-14297	iMcV-T1/E1/J1, TP/Fiber-CWDM-SM1570-SC	80 km
850-14298	iMcV-T1/E1/J1, TP/Fiber-CWDM-SM1590-SC	80 km
850-14299	iMcV-T1/E1/J1, TP/Fiber-CWDM-SM1610-SC	80 km

*These products have single-strand fiber technology.
For more information go to: www.imcnetworks.com/products/SSFX.cfm

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