

# TDM Media Converter

IE-iMcV-T1/E1/J1 LineTerm

B+B SMARTWORX

Powered by

ADVANTECH

[www.advantech-bb.com](http://www.advantech-bb.com)



## PRODUCT FEATURES

- Operates at (T1/J1 1.544 Mbps) and (E1 2.048 Mbps)
- Conduct loopback tests, monitor/manage units via GUI-based iView2
- Remote unit supports secure, out-of-band management
- Available for multi-mode, single-mode or single-strand fiber
- Layer 1 modules
- Supports fiber and copper remote loopback control
- Transmit Data Source diagnostic tool sends data as unframed all ones, a pattern of alternating ones and zeros, or a Pseudorandom Bit Sequence (PRBS) - a built-in PRBS signal detector makes testing even easier.
- Supports Configuration Control, making SNMP management easy

SNMP-manageable, the IE-McV-T1/E1/J1 converter series of modules extends 1.544 Mbps T1/J1 and 2.048 Mbps E1 copper-based PBX, router and switch circuits over regular duplex fiber or single-strand fiber optics. Supporting fiber distances up to 80 km, the IE-McV-T1/E1/J1 series of converters include built-in jitter removal, line integrity testing, diagnostic tools (Loopback Mode and Transmit Data Source) and remote management features.

The IE-iMcV-T1/E1/J1 LineTerm incorporates advanced features, such as line terminating functionality and configuration control, support for both Alarm Indication Signals (AIS) and Remote Alarm Indications (RAI). Modules offer fixed fiber as well as SFP fiber ports, allowing for flexibility of covering any distance required for the circuit.

The modules must be installed as a Host/Remote pair and can be remotely managed when the HOST is installed in an iMediaChassis with an SNMP Management Module. This enables network managers to conduct loopback testing, to monitor, and to manage units located up to 80 km away.

## ORDERING INFORMATION

MODEL NUMBER	FIBER	FIBER PORTS	RANGE	ETHERNET PORTS	ETHERNET CONNECTOR
<b>IE-iMcV-T1/E1/J1-LineTerm, With Config Control TP/SFP *</b>					
850-18100	SFP	1	Various	1	RJ48
<b>IE-iMcV-T1/E1/J1 Line Terminating with Config Control</b>					
850-18103	MM1300-ST	1	5 km	1	RJ48
850-18104	MM1300-SC	1	5 km	1	RJ48
850-18105	SM1310/PLUS-ST	1	40 km	1	RJ48
850-18106	SM1310/PLUS-SC	1	40 km	1	RJ48
* 850-18108	SM1310/LONG-SC	1	80 km	1	RJ48
<b>SINGLE STRAND FIBER **</b>					
850-18122	SM1310-SC (1310xmt/1550rcv)	1	20 km	1	RJ48
850-18123	SM1550-SC (1550xmt/1310rcv)	1	20 km	1	RJ48
850-18124	SM1310/PLUS-SC (1310xmt/1550rcv)	1	40 km	1	RJ48
850-18125	SM1550/PLUS-SC (1550xmt/1310rcv)	1	40 km	1	RJ48

\* Certified at 40 km, 80 km is achievable.

\*\* SFP fibers sold separately - available at [www.advantech-bb.com](http://www.advantech-bb.com)



iView2: Webserver version, available for download from website.

All product specifications are subject to change without notice.  
IE-iMcV-T1/E1/J1 LineTerm\_1017ds

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## SPECIFICATIONS

### TECHNICAL

Protocol Selectable — Operates at T1/J1 (1.544 Mbps) and E1 (2.048 Mbps) protocols
Supports Alarm Indication Signals (AIS)
Internal Test Head Function (PRBS, 1/0, All 1's)
Ability to manage remote unit from host end
Supports fiber and copper loopback
Selectable line buildout (0 - 655 ft.)
Includes DTE/DCE switch on converter
Installs in any iMediaChassis or MediaChassis chassis
Supports GUI-Based iView <sup>2</sup>
CSU Line Gain (7.5, 15, 22.5 db)
Monitor Boost (20, 26, 32 db)
Supports secondary line protection
50/125µm or 62.5/125µm multi-mode fiber
9/125µm single-mode fiber
Available for single-strand fiber
Connectors: RJ-48 and ST, SC

### STANDARDS COMPLIANCE

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

### MECHANICAL

Dimensions	4.19H x 0.78W x 2.75D, inches (10.74H x 2.0W x 7.05D, cm)
Shipping Weight	0.30 lbs (0.11 kg)

### POWER

0.55A @ 5V (Typical)

### ENVIRONMENTAL

Operating Temperature:	+32° to +122° F (0° to +50° C)
Storage Temperature:	-13° to +158° F (-25° to +70° C)
Operating Humidity	5% to 95% (non-condensing), 0 – 10,000 ft. altitude

### REGULATORY APPROVALS

FCC Class A
UL/cUL
CSA
CE

### MEANTIME BETWEEN FAILURE

Meantime Between Failure (MTBF)	2,000,000 hours
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## MECHANICAL DIAGRAM

(dimensions in inches)

