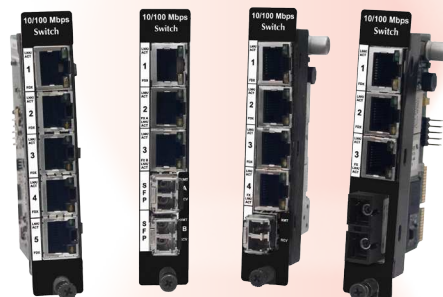**MEDIA CONVERSION**

Monitor all connections from a central site with iMcV Series multi-port switch modules.

Features and Benefits

- Multi-port 10/100Base-T MAC switch
- Available with 1 or 2 SFP ports, or 1 SC, ST or single-strand fiber port
- Supports up to 1000 MAC address learning
- Supports standard MAC address aging
- Transparent to VLAN tags
- Grants priority for all frames with PRI>4 or DSCP>32
- Supports Auto Cross and Auto Negotiation on all Tx ports
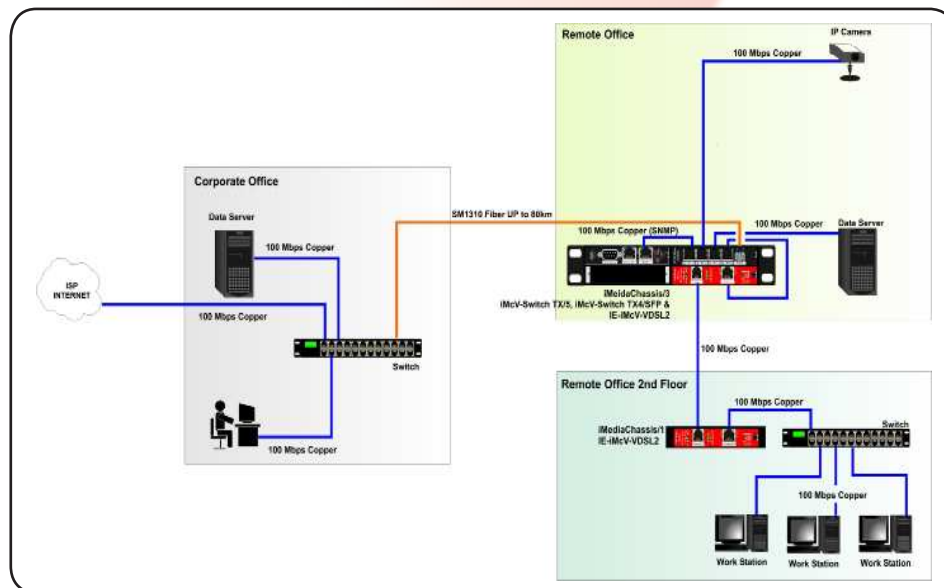- Supports Flow Control
- Features Collision Detection

* SFPs sold separately

The iMcV-Switch is a multi-port, 10/100 Ethernet module that allows the user to increase port density and the service area of Ethernet networks. The store and forward switch function allows the end user to extend Ethernet service to locations for a total of 100 meters from the Ethernet source. All RJ-45 ports Auto Negotiate 10/100Base-T, half/full duplex, and automatically configure for MDI or MDIX operation. Each port allows a maximum frame size of up to 1916 bytes and supports Flow Control and priority queuing.

Easily view the status of the iMcV-Switch with IMC Networks' GUI-based iView². iView² runs standalone on Windows NT/XP/2000/Vista, as a standalone Java Application for other operating systems, as a snap-in module for 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, visit our web site at: http://www.imcnetworks.com/go/iview2

Application Example

The iMcV-Switch allows the user to increase port density and service area of Ethernet networks when installed in an iMediaChassis or MediaChassis. In this example, the iMediaChassis/3-2AC already has an iMcV-VDSL2-LANextender that provides VDSL2 connectivity while using existing telephone cabling between destinations such as different floors in the same building over a 100 meter range. With the addition of the iMcV-Switch TX/4 + SFP, one now has five more ports, four copper and one fiber, to accommodate varying applications such as UDP video broadcast, data transmission, data access/archiving and SNMP that can be transmitted at a distance via fiber.

Technical Specifications

iMcV-Switch

- IEEE 802.3x 10/100Base-T
- IEEE 802.3u Auto Negotiation
- RFC-2474 and RFC-2475 DiffServ/ToS
- Includes diagnostic LEDs
- AutoCross and Auto Negotiation on all ports
- Maximum 1916 byte packet size
- Supports Half and Full-Duplex operation
- **Connectors:** RJ-45 and SC, ST, LC or SFP
- Installs in any iMediaChassis, MediaChassis or IE-MediaChassis
- Supports GUI-Based iView[2]
- Supports Half- and Full-Duplex operation
- Includes diagnostic LEDs
- Includes hot-swappable architecture

Shipping Weight:

0.30 lbs (.11 kg)

Regulatory Approvals:

- FCC Class B
- 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:

-4° to +158° F (-20° to +70° C);
5% to 95% (non-condensing)

Fiber Optics Specifications

The unit supports any MSA compliant SFP with a 155 Mbps bandwidth rating. DDMI capabilities are supported through the iView[2] management software when the unit is installed in a managed chassis. IMC Networks provides a complete range of SFP units in both Single and Dual fiber versions with a full range of wavelengths and distance ratings. 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 for a free consultation.

Ordering Information

PART NUMBER	DESCRIPTION	DISTANCE
iMcV-Switch		
852-14440	iMcV-Switch, TX/5	100 m
852-14441	iMcV-Switch, TX/4 + SFP [§]	Varies
852-14442	iMcV-Switch, TX/3 + 2 x SFP [§]	Varies
852-14443	iMcV-Switch, TX/3 + FX-MM850-ST	2 km
852-14444	iMcV-Switch, TX/3 + FX-MM850-SC	2 km
852-14445	iMcV-Switch, TX/3 + FX-MM1300-ST	5 km
852-14446	iMcV-Switch, TX/3 + FX-MM1300-SC	5 km
852-14449	iMcV-Switch, TX/3 + FX-SM1310/PLUS-ST	40 km
852-14450	iMcV-Switch, TX/3 + FX-SM1310/PLUS-SC	40 km
852-14451	iMcV-Switch, TX/3 + FX-SM1310/LONG-ST	80 km
852-14452	iMcV-Switch, TX/3 + FX-SM1310/LONG-SC	80 km
852-14453	iMcV-Switch, TX/3 + FX-SM1550/LONG-SC	80 km
iMcV-Switch Single-Strand Fiber*		
852-14470	iMcV-Switch, TX/3 + SSFX-SM1310-SC	20 km
852-14471	iMcV-Switch, TX/3 + SSFX-SM1550-SC	20 km
852-14472	iMcV-Switch, TX/3 + SSFX-SM1310/PLUS-SC	40 km
852-14473	iMcV-Switch, TX/3 + SSFX-SM1550/PLUS-SC	40 km
852-14474	iMcV-Switch, TX/3 + SSFX-SM1310/LONG-SC	60 km
852-14475	iMcV-Switch, TX/3 + SSFX-SM1550/LONG-SC	60 km

All copper ports on the iMcV-Switch extend Ethernet service to locations a total of 100 meters from the Ethernet source.

* 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

§ SFP modules are sold separately. For more information on compatible IMC Networks SFPs, go to: www.imcnetworks.com/Products/product.cfm?family=32

CWDM wavelengths are also available. Contact IMC Networks for a complete list of part numbers.

IE-SFP Modules: 100 to 155 Mbps (OC-3)

PART NUMBER W/ DDMI	PART NUMBER W/O DDMI	PORT DESCRIPTION	FIBER	DISTANCE	POWER BUDGET (db)
808-38101	808-38111	MM850	LC	2 km	14.5
808-38102	808-38112	MM1300	LC	2 km	15
808-38103	808-38113	SM1310	LC	15 km	13
808-38104	808-38114	SM1310/PLUS	LC	40 km	31
808-38105	808-38115	SM1550/LONG	LC	80 km	31
808-38525	808-38535	SSFX-SM1310/1550/LONG	LC	60 km	31
808-38526	808-38536	SSFX-SM1550/1310/LONG	LC	60 km	31

IE-SFP Modules: CWDM (155 Mbps)

PART NUMBER	DESCRIPTION	FIBER	DISTANCE	POWER BUDGET (db)
808-38141	CWDM-SM1270	LC	80 km	33
808-38142	CWDM-SM1290	LC	80 km	33
808-38143	CWDM-SM1310	LC	80 km	33
808-38144	CWDM-SM1330	LC	80 km	33
808-38145	CWDM-SM1350	LC	80 km	33
808-38146	CWDM-SM1370	LC	80 km	33
808-38147	CWDM-SM1390	LC	80 km	33
808-38148	CWDM-SM1410	LC	80 km	33
808-38149	CWDM-SM1430	LC	80 km	33
808-38150	CWDM-SM1450	LC	80 km	33
808-38151	CWDM-SM1470	LC	80 km	33
808-38152	CWDM-SM1490	LC	80 km	33
808-38153	CWDM-SM1510	LC	80 km	33
808-38154	CWDM-SM1530	LC	80 km	33
808-38155	CWDM-SM1550	LC	80 km	33
808-38156	CWDM-SM1570	LC	80 km	33
808-38157	CWDM-SM1590	LC	80 km	33
808-38158	CWDM-SM1610	LC	80 km	33

Single-fiber SFPs are also available. Visit www.imcnetworks.com/Products/product.cfm?family=32 or contact IMC Networks for the complete line of MSA Compliant SFPs.