NEXT GENERATION
AUTOMATED INFRASTRUCTURE MANAGEMENT

Powered By:

EagleEye™ Connect

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MapIT G2

Next-Generation Intelligent Infrastructure Solution for Physical Layer Network Management

MapIT G2 integrates a powerful combination of innovative Smart Patch Panels, user-friendly Master Control Panels and EagleEye™ software to provide real-time tracking and reporting of network-wide physical layer activity. This benchmark Automated Infrastructure Management (AIM) system offers truly unparalleled ability to manage a complex network.

- 483 Senior IT leaders list intelligence, security and disaster recovery as their top 3 concerns ¹
- 82% of IT professionals say downtime was caused by IT personnel making errors when configuring changes ²
- The average cost per downtime incident is $140K with the financial sector averaging $540K per incident ²

1 - 2013 SIM International IT Trends Study
2 - 2014 Avaya Network Downtime Study

Monitor Your Network. Manage Your Network. Protect Your Network...

From the Colocation or Enterprise Data Center... Wherever It Is
Monitor

Detailed Network Views
Hierarchical views map your entire network, from rack and cabinet infrastructure views, to work area and floor layouts - all with complete circuit diagrams, including active equipment. Circuit diagrams are also displayed locally on MapIT® G2’s LCD-equipped Control Panels and Smart Patch Panels and Enclosures.

Database Accuracy
All network information is stored in a software-driven database, which is automatically updated in real time as moves, adds and changes are made, ensuring that the network condition is known at all times. MapIT G2 with EagleEye Connect is also ideal for providing colocation customers with higher levels of billing accuracy.

Maximizes Utilization of Networking Assets
EagleEye™ Connect utilization reports let you see available switch or patch panel ports. End devices can be tracked by location, equipment type, manufacturer, service or other criteria, providing better visibility and utilization of these critical assets.

Manage

Reduce Downtime
MapIT G2 circuit trace capability quickly identifies the location of a fault in a channel - information can be displayed on MapIT panels to guide onsite staff, drastically reducing the time required to find and fix a network outage.

Better Manage Remote Sites
MapIT provides a real-time view of networks at remote offices, helping to ensure compliance with corporate IT policies and discouraging unauthorized changes to the network. With EagleEye Connect, colocation data center can provide customers with automatic notification of key performance indicators.

Streamlines Work Order Process
Use EagleEye Connect integrated work order module to ensure that orders are completed properly. Also, work orders can include pictures of circuit traces, rack views and floor layouts, providing useful visual aids for technicians.

Protect

Real-Time Alerts
EagleEye Connect can send e-mail alerts to IT, security staff, or colocation tenants in real time when unauthorized events occur on the network — such as detecting unauthorized devices attempting to connect to your LAN.

Regulatory Compliance
EagleEye Connect maintains an audit log of all network events, simplifying compliance with regulatory mandates, such as Sarbanes-Oxley, ITIL, HIPAA, FDA 21 CFR Part II, etc. It is also ideal for scheduled management reports for colocation customers.

Improve Response Time
EagleEye Connect software features a robust search engine. Help desk staff can use this feature to quickly locate any item on your network and view its attributes and connections.
MapIT® G2 - The New Intelligence

Despite the benefits to network professionals, AIM systems have earned a reputation as difficult and complicated to implement. As much as the management efficiencies and security capabilities of these systems provide a clear and immediate impact on network operations, their perceived complexity was seen as a barrier to some.

MapIT G2 was developed specifically to eliminate that complexity. By bringing intelligence directly to the patch panel and fiber enclosure, systems are deployed faster with better function. User-friendly 1U MapIT G2 Control Panels can monitor up to 2880 of these smart ports each via simple bus connections. These control panels then provide a central interface to the EagleEye™ software - a single connection to your entire network.

And MapIT G2's unique benefits don't stop there...

Interactive

Smart panels and fiber enclosures feature a graphic LCD for patch cord tracing, diagnostics and technician guidance. The LCD can also display dynamic labeling information pulled directly from the EagleEye database.

Powerful

The MCP collects data from all panels in the system and relays it to the MapIT database. This advanced device provides a large LCD screen and keypad to interface to the EagleEye Connect software – eliminating the need for technicians to access the software directly.

Reliable

MapIT G2 is built for reliability. All components have been through extensive durability testing and exceed a 20-year MTBF (Mean Time Between Failures). If that weren’t enough, we also built in redundant power and Ethernet connections into the Master Control Panel. Finally, the entire system is modular and in the unlikely event that any component fails, it can be replaced or repaired without disrupting critical network connections and applications.
Green

Up to 75% Lower Power Consumption
In addition to all the state-of-the-art features MapIT® G2 has to offer, it uses much less power than competing systems. In fact, MapIT G2 uses up to 75% less power than other intelligent cable management systems. It also features time out settings, which can reduce power consumption even further.

Reduced Heat Generation
MapIT G2 components are optimized to run cool in data center applications. All components generate virtually no heat and do not require cooling fans. Additionally, the components are very low profile (1U) so they do not impede airflow in cabinets.

Compact

Up to 80% Higher Density
MapIT G2 innovative design dramatically reduces the amount of rack space required for automated infrastructure management components. Because the intelligence is built into the patch panels, MapIT G2 provides up to 80% better density than competing systems. For example, some systems require up to 60 rack mount spaces to manage 20,000 ports. MapIT G2 can manage the same number of ports with only 7U of rack space.

Efficient

Up to 76% Reduction in Pathway Space Usage
With intelligence built into the Smart Patch Panels and fiber enclosures, there’s no need to run individual cable from a central analyzer or scanner to each panel. This reduces the amount of pathway space required to connect the intelligent system. For example, in even a medium size closet with about 2,000 managed ports, the cable required to connect MapIT G2 components requires up to 76% less pathway space versus competing systems.

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With the enhanced flexibility requirements of a data center, an additional layer of standard connectivity is added to the MapIT G2 system.

As in the TR, switches are linked into the Smart Panel cross-connect. These Smart Panels are connected to the servers via standard horizontal cabling, patch panels and patch cords. This configuration allows MapIT G2 to monitor critical connections with a high degree of accuracy.
Telecommunications Room Interconnect

In the TR, the MapIT G2 system is deployed very much like a traditional infrastructure.

Switches connect directly to Smart Patch Panels. Sensor enabled patch cords are employed to manage the connection between switch ports and Smart Panels, which are in turn connected to the MapIT G2 Master control panel via category 5e control cords.

Horizontal and work area connections use standard (non-MapIT) connectivity, making MapIT G2 system implementation simple and straightforward.

Legend:
- Solid IC Equipment Cord
- Sensor-Enabled MapIT G2 Patch Cord
- Category 5e Cable for Control Connection
- Horizontal Cable
- Standard Patch Cord
EagleEye™ Connect Software

EagleEye Connect software provides the critical central interface for the entire MapIT G2 system. These server-based software options collect, monitor and store network intelligence data from MapIT G2 Smart Panels and connectivity, delivering this information in a robust and user-friendly set of network management features.

EagleEye Connect software extends network resources, providing the same level of control to both centralized and remote sites from a single management point.

- **DOCUMENTATION**
  - Real-time physical layer documentation and monitoring including discovery of IT devices, interactive floor images, rack elevations and end-to-end circuit traces

- **ASSET MANAGEMENT**
  - Real-time database with auto-discovery stores status and location of all cabling and IT assets to minimize troubleshooting time and maximize equipment and rack utilization

- **ENHANCED SECURITY**
  - Software detects and records all physical network activity and provides instant alerts on unauthorized access or modification

- **WEB-BASED**
  - Web-based application enables access from virtually any device, anywhere

- **STREAMLINED WORK ORDERS**
  - The work order module assigns, directs and tracks work orders, ensuring accuracy, speed and documentation of activity

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**Ordering Information:**

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>EE-SWL-CNT*</td>
<td>EagleEye Connect Software Per FMA</td>
</tr>
<tr>
<td>EE-MN1-CNT</td>
<td>EagleEye Connect Maintenance Per FMA</td>
</tr>
<tr>
<td>EE-MN3-CNT</td>
<td>EagleEye Connect Maintenance Per FMA, 3 year</td>
</tr>
</tbody>
</table>

*Includes free maintenance/support for 1 year from initial installation. FMA = Floor Mounted Asset

Visit [www.siemon.com/eagleeye](http://www.siemon.com/eagleeye) for more information including system requirements
MapIT® G2
Master and Distribution Control Panels

The MapIT G2 Master Control Panel (MCP) collects all network infrastructure data provided by the Smart Patch Panels and Fiber Enclosures, monitoring up to 2880 ports in just 1 rack mount space (1U). The MCP and DCP feature an integrated LCD display and keypad, which provide technicians access to critical network architecture and diagnostic information. By providing this interactive interface locally within the patching zone, MapIT G2 virtually eliminates the need for technicians to carry mobile devices or directly access the EagleEye software. This user interface allows full end-to-end graphic circuit traces for any channel in the system and can perform diagnostic tasks on any component or port.

- SUPERIOR DENSITY
  Low profile 1U design increases density and reduces usage of costly rack and cabinet space in data centers and telecommunication rooms

- REDUCED POWER CONSUMPTION
  75% lower power consumption compared to traditional intelligent patching systems for monitoring equipment. This power savings decreases operating expenses and provides a more environmentally friendly solution

- EXCELLENT THERMAL EFFICIENCY
  The MCP and DCP’s combination of ultra low heat generation and a low profile design help to maximize cooling efficiency in data center environments

- SIMPLE, MULTI-FUNCTIONAL USER INTERFACE
  Large graphic LCD and keypad enables technicians to view circuit traces, patch cord traces, perform diagnostics and more, improving efficiency in maintenance and MAC work

- EASE OF IMPLEMENTATION
  Simple design and straightforward setup reduces the time to design and install the system

MCP Graphic LCD
Redundant power and Ethernet
Field-terminated control connections

Ordering Information:

M-MCP . . . . . . . . . . . . . . . . . . . . . . . . . MapIT G2 Master Control Panel, 1U, black*
M-DCP . . . . . . . . . . . . . . . . . . . . . . . . . MapIT G2 Distribution Control Panel, 1U, black*

*Includes mounting hardware (1) probe pen, (1) power supply with adapters for various regions, rear cable manager, cable ties, S310 stuffer caps and ground lug. Probe pen not included with Distribution Control Panel (M-DCP) Note: 1U = 44.5mm (1.75 in.)

MapIT G2 Interconnect Solution for Copper Systems

MapIT G2 is compatible with an interconnect topology allowing users to track switch to copper smart patch panel port connections. The MapIT G2 Interconnect Module is used to create a link between switch and panel port connections during initial installation or during moves, adds and changes.

M-ICM . . . . . . . . . . . . . . . . . . . . . . . . . . . MapIT G2 Interconnect Module

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MapIT® G2 Copper Systems

MapIT G2 Smart Patch Panels
The MapIT G2 Smart Patch Panel (SPP) is an industry first in Automated Infrastructure Management. The panel features on-panel intelligence including a combination of LEDs and a backlit graphic LCD to guide technicians. The LCD can be used to display patch cord trace and diagnostic information. It can also guide technicians during MAC work, which can increase accuracy and productivity. Since it is actively connected to your database, you could even use it as a virtual labeling system, dynamically displaying panel and port information directly from the MapIT G2 database.

Ordering Information:
MapIT G2 Smart Patch Panel
M-SPP(X)-24ENS_________MapIT G2 24-port modular Smart Patch Panel, accepts Siemon shielded and unshielded Z-MAX® Keystone outlets or unshielded MAX keystone outlets (sold separately)
Includes mounting hardware, labels, (24) cable ties and panel ground lug
Use (X) to specify panel type: Blank = Flat, A = Angled

MapIT G2-Ready Patch Panel
M-SPP(X)-K24E-001________MapIT G2-Ready 24-port modular Patch Panel, accepts Siemon shielded and unshielded Z-MAX Keystone outlets or unshielded MAX keystone outlets (sold separately)
Includes mounting hardware, labels, (24) cable ties and panel ground lug
M-SPP(X)-PCBA-24________MapIT G2 Upgrade Kit for MapIT G2 Ready Patch Panels. (Upgrade kit includes PCB with built-in sensor pads, LED’s and LCD display, new front panel cover, additional mounting hardware & components with instructions)
Use (X) to specify panel type: Blank = Flat, A = Angled

MapIT G2 Patch Cords
These advanced cords feature a 9th wire and gold-plated sensor pin contained in a robust over-molded boot. This embedded sensor technology enables tracking of connections between Smart Patch Panel ports.

MapIT G2 Sensor-Enabled Copper Patch Cords:
M-10GMCS-(XX)(XX)L________Category 6A shielded, double-ended, stranded modular cord, color-matching boot, T568A/B, LS0H
Jacket Color
Length
02 - White
04 - Grey
06 - Blue
01 - 1 meter (3.3 ft.)
02 - 2 meter (6.6 ft.)
03 - 3 meter (9.8 ft.)
05 - 5 meter (16.4 ft.)

M-MC6-(XX)-(XX)________Category 6 UTP, double-ended, stranded modular cord, color-matching boot, T568A/B, CMG
Jacket Color
Length
02 - White
04 - Grey
06 - Blue
03 - 0.91 meter (3 ft.)
05 - 1.52 meter (5 ft.)
07 - 2.13 meter (7 ft.)
10 - 3.05 meter (10 ft.)
15 - 4.57 meter (15 ft.)
20 - 6.10 meter (20 ft.)

M-10GMC-(XX)-(XX)________Category 6A UTP, double-ended, stranded modular cord, color-matching boot, T568A/B, LS0H
Jacket Color
Length
02 - White
04 - Grey
06 - Blue
03 - 0.91 meter (3 ft.)
05 - 1.52 meter (5 ft.)
07 - 2.13 meter (7 ft.)
10 - 3.05 meter (10 ft.)
15 - 4.57 meter (15 ft.)
20 - 6.10 meter (20 ft.)

Siemon Keystone Outlets
Z6A-SK01____________Keystone shielded Z-MAX 6A outlet, black*, T568A/B
Z6A-K01____________Keystone UTP Z-MAX 6A outlet, black*, T568A/B
Z6-K01____________Keystone UTP Z-MAX 6 outlet, black*, T568A/B

*Other colors available on request.

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### MAPIT® G2 TERA® PATCH PANELS

<table>
<thead>
<tr>
<th>Part #</th>
<th>Description</th>
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<tbody>
<tr>
<td>M-SPPA-T24K</td>
<td>MapIT G2 TERA Panel, 24 Ports, Angled Black, 1 RMS, Sold with TERA Outlets</td>
</tr>
<tr>
<td>M-SPPA-T24-01K</td>
<td>MapIT G2 Ready TERA Panel, 24 Ports, Angled Black, 1 RMS, Sold with TERA Outlets</td>
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### READY PANEL UPGRADE TO MAPIT G2

<table>
<thead>
<tr>
<th>Part #</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>M-SPPAT-PCBA-24</td>
<td>MapIT G2 TERA panel upgrade kit, PCB</td>
</tr>
</tbody>
</table>

### MAPIT® G2 TERA PATCH CORDS - 4 PAIR

<table>
<thead>
<tr>
<th>Part #</th>
<th>Description</th>
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<tbody>
<tr>
<td>M-T4(X)-(XX)(M-B)(XX)L</td>
<td>S/FTP Cable Assembly, Ivory Jacket, Colored Boot, LSOH</td>
</tr>
</tbody>
</table>

**Plug Type**
- Blank = TERA 4 pair to TERA 4 pair
- A = TERA to 6A RJ45 T568B wired
- B = TERA to 6A RJ45 T568A wired

**Boot Color**
- 01 = Black
- 02 = White
- 03 = Red
- 04 = Gray
- 05 = Blue

**Cord Length**
- 01 = 1m (3 ft.)
- 02 = 2m (6 ft.)
- 03 = 3m (9 ft.)
- 05 = 5m (16 ft.)

### MAPIT® G2 TERA PATCH CORDS - 2 PAIR

<table>
<thead>
<tr>
<th>Part #</th>
<th>Description</th>
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<tbody>
<tr>
<td>M-T2E2:(XX)(M-B)(XX)L</td>
<td>TERA to 5e Screened RJ45 Cable Assembly, Ivory Jacket, Colored Boot, LSOH</td>
</tr>
</tbody>
</table>

**Cord Length**
- 01 = 1m (3 ft.)
- 02 = 2m (6 ft.)
- 03 = 3m (9 ft.)
- 05 = 5m (16 ft.)

**Boot Color**
- 01 = Black
- 02 = White
- 03 = Red
- 04 = Gray
- 06 = Blue
MapIT® G2 Fiber Systems

MapIT G2 Smart Fiber Enclosure (SFE)
The MapIT G2 Smart Fiber Enclosure combines on-panel intelligence with robust MapIT connectivity and fiber management features for a best in-class intelligent fiber patching solution. The LCD can be used to display patch cord trace and diagnostic information. It can also guide technicians during MAC work, which can increase accuracy and productivity.

MapIT G2 Smart Fiber Enclosures

MTP to LC Plug and Play Fiber Enclosure - SMTP

M-SMTP-LC5V48NS........ MapIT G2 LC 48-fiber LC-to-MTP Smart Fiber Enclosure, black, Multimode, OM4
Includes 24 duplex MM, LC adapters, cable ties, panel ground lug, fiber management clips, front management bar, label holder and labels

M-SMTP-LCSM48NS........ MapIT G2 LC 48-fiber LC-to-MTP Smart Fiber Enclosure, black, Singlemode, OS1/OS2
Includes 24 duplex SM, LC adapters, cable ties, panel ground lug, fiber management clips, front management bar, label holder and labels

LC to LC Fiber Enclosure - SFE

M-SFE-LC48-NS........... MapIT G2 LC 48-fiber Smart Fiber Enclosure, black, Multimode OM3/OM4
Includes 24 duplex MM, LC adapters, cable ties, panel ground lug, fiber management clips, label holder and labels

M-SFE-LC48-NSC.......... MapIT G2 LC 48-fiber Smart Fiber Enclosure, black, Singlemode OS1/OS2
Includes 24 duplex SM, LC adapters, cable ties, panel ground lug, fiber management clips, label holder and labels

MapIT G2-Ready Fiber Enclosures

MTP to LC Plug and Play Fiber Enclosure

M-MTP-LC5V48-01.......... MapIT G2-Ready LC-to-MTP Enclosure, black, Multimode, OM4
Includes 24 duplex MM/LC adapters, cable ties, panel ground lug, fiber management clips, front management bar, label holder and labels

LC to LC Fiber Enclosure

M-FE-LC48-01............. MapIT G2-Ready Enclosure, black, Multimode OM3/OM4
Includes 24 duplex LC adapters, cable ties, panel ground lug, fiber management clips, label holder and labels

Upgrade Kit for MapIT G2-Ready Fiber Enclosures

M-SFE-PCBA-24............ MapIT G2 Upgrade Kit for MapIT G2 Ready Fiber Enclosure.
Includes PCB with built-in sensor pads, LED’s and LCD display, new front panel cover, additional mounting hardware & components with instructions

MapIT G2 XGLO® Jumpers

MapIT G2 XGLO jumpers are built to be the best. These assemblies are constructed with premium fiber that meets IEEE, IEC and TIA specifications for 10 Gigabit Ethernet serial transmission. These advanced cords feature patented MapIT G2 sensor technology – gold-plated sensor pins retained in robust molded connector clips.

MapIT G2 XGLO Multimode Duplex Jumpers:
M-J2-LCLC50(0)-000........ LC-LC duplex jumper, MapIT G2 XGLO 50/125 multimode fiber, aqua jacket, OFNR

Performance
Length
01 - 1 meter (3.3 ft.)
03 - 3 meter (9.8 ft.)
05 - 5 meter (16.4 ft.)

MapIT G2 XGLO Singlemode Duplex Jumpers:
M-J2-LCULCLUL-000........ LC-LC duplex jumper, MapIT G2 XGLO singlemode fiber, yellow jacket, OFNR

Performance
Length
01 - 1 meter (3.3 ft.)
03 - 3 meter (9.8 ft.)
05 - 5 meter (16.4 ft.)

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## Accessories

### Power Supply

M-PS . . . . . . . . . . . . . . . . . . . . . . . 6v, 3amp power supply, adapter/cord for MCP or DCP

### Replacement Probe Pen

M-PEN . . . . . . . . . . . . . . . . . . . . . MapIT G2 probe pen, 7.62m (25 ft.) cord

### Solid IC Cords

<table>
<thead>
<tr>
<th>Length</th>
<th>Wiring</th>
<th>Jacket Type</th>
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</thead>
<tbody>
<tr>
<td>10 - 3 m (10 ft)</td>
<td>A - T568B</td>
<td>P - Plenum</td>
</tr>
<tr>
<td>20 - 6.10 m (20 ft)</td>
<td>T - T568A</td>
<td>R - Riser</td>
</tr>
<tr>
<td>30 - 9.14 m (30 ft)</td>
<td></td>
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</tr>
<tr>
<td>40 - 12.14 m (40 ft)</td>
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<tr>
<td>50 - 15.24 m (50 ft)</td>
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<tr>
<td>60 - 18.28 m (60 ft)</td>
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### Category 5e Shielded Cable for Bus Connections

<table>
<thead>
<tr>
<th>System</th>
<th>Color</th>
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</thead>
<tbody>
<tr>
<td>Premium 6</td>
<td>01 - Black</td>
</tr>
<tr>
<td>- (Blank) - System 6</td>
<td>02 - White</td>
</tr>
<tr>
<td></td>
<td>03 - Red</td>
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<tr>
<td></td>
<td>04 - Gray</td>
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<tr>
<td></td>
<td>05 - Yellow</td>
</tr>
<tr>
<td></td>
<td>06 - Blue</td>
</tr>
<tr>
<td></td>
<td>07 - Green</td>
</tr>
</tbody>
</table>

### Shielded RJ-45 Plugs

PS-8-8 . . . . . . . . . . . . . . . . . . . . . . . 8-position shielded modular plug with 8 contacts (compatible with Siemon PT-908 crimp tool)

### 110 Patch Plugs

S110P4 . . . . . . . . . . . . . . . . . . . . . . . 4-pair, field-terminated S110 patch plug (colored icons not included)

### LockIT™ RJ-45 Outlet Lock

LL-05 . . . . . . . . . . . . . . . . . . . . . . . LockIT RJ45 Outlet Lock, bag of 10, includes 1 LockIT Universal Key

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