

# MapIT® G2 Infrastructure Management

Take your network management to the next level. The MapIT G2 system integrates a powerful combination of innovative Smart Patch Panels, user-friendly Master Control Panels and Siemon’s EagleEye® Connect software to provide real-time tracking and reporting of network-wide physical layer activity. The system continuously monitors your network — 24/7, increasing physical layer security by tracking changes in device connectivity, detecting unauthorised connections and devices, providing instant alerts and reducing downtime. All activity is automatically updated in the system database, ensuring 100% accuracy of your infrastructure documentation. With these advantages in documentation, security, uptime and asset management, most customers see ROI in less than 2 years.

Available in:

- Flat and Angled Copper Smart Patch Panels (SPP) Options — Angled panels eliminate the need for horizontal cable managers, greatly improving patching density
- Standard Fibre and MTP Plug and Play Smart Enclosures
- Siemon’s Innovative MapIT G2 Interconnect Module — Enables direct monitoring of patching to network switches

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# 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 Fibre Enclosures, monitoring up to 2880 ports in just 1 rack mount space (1U). The MCP and DCP features an integrated LCD display and keypad, which provide technicians access to critical network architecture work order and diagnostic information. By providing this interactive interface locally within the patching zone, the MapIT G2 system virtually eliminates the need for technicians to carry PDAs or directly access the software server. 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 centres 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

**Simple, Multi-Functional User Interface —**

Large graphic LCD and keypad enables technicians to view circuit traces, patch cord traces, perform work orders, diagnostics and more, improving efficiency in maintenance and MAC work

**Ease of Implementation —**

Simple design and straightforward implementation and setup reduces the time and technician skill required to design and install the system



MCP Graphic LCD



Redundant power and Ethernet



Field-terminated control connections (RJ45 Front or S310 Rear)

# MapIT® G2 Master and Distribution Control Panels

## Ordering Information:

- M-MCP..... MapIT Master Control Panel, 1U, black\*
- M-DCP..... MapIT 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  
 Note: 1U = 44.5mm (1.75 in.)



## Optional Accessories

### Second Power Supply

M-PS..... 6.0V, 3.0A Power supply for MCP or DCP

### Replacement Probe Pen

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

### Category 5e Shielded Cable for Control Connections

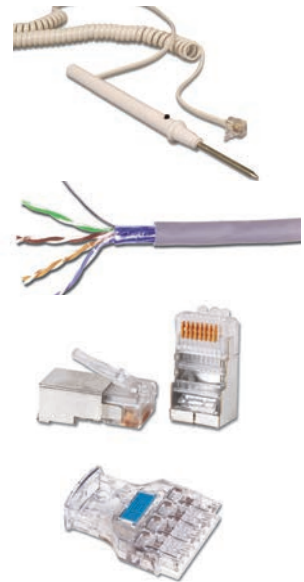
- 9A5M4-E2..... PVC (CM, IEC 60332-1), grey jacket, 305 (1000 ft.) Reel-in-Box
- 9A5L4-E2..... LS0H (IEC 60332-1), violet jacket, 305m (1000 ft.) Reel-in-Box

### PS-8-8 Shielded RJ45 Plugs

PS-8-8.....8-Position shielded modular plug with 8 contacts (compatible with Siemon and Tyco crimp tools)

### S110® Patch Plugs

S110P4..... 4-Pair, field-terminated S110 patch plug (coloured icons not included)



## EagleEye® Connect Software



Siemon's EagleEye Connect software manages, monitors and documents your network infrastructure through Siemon's MapIT G2 connectivity. For more information on EagleEye Connect software, including features, capabilities and system requirements, please visit [www.siemon.com/eagleeye](http://www.siemon.com/eagleeye).

# MapIT® G2 Interconnect Solution

The MapIT G2 interconnect solution enables tracking of direct MapIT G2 connectivity between a switch and a Smart Patch Panels (SPP) — without the need for an additional SPP required in a cross-connect configuration. The interconnect topology (see diagram below) can increase rack density, cut installation costs and reduce installation time. Compatible with existing Siemon MapIT G2 copper connectivity, simply use the Interconnect Module (M-ICM) to unlock the design flexibility of an interconnect topology.

Simple to use — just plug a MapIT G2 patch cord into the switch and plug the other end into the Interconnect Module, which discovers the switch port and relays the information to the MapIT G2 system. Then, remove the cord from the module, plug it into the SPP and the link is detected.



**Reduced Costs —**

The interconnect solution requires half the number of patch panels versus an intelligent cross-connect installation, cutting both material and installation labour costs

**Faster Deployment —**

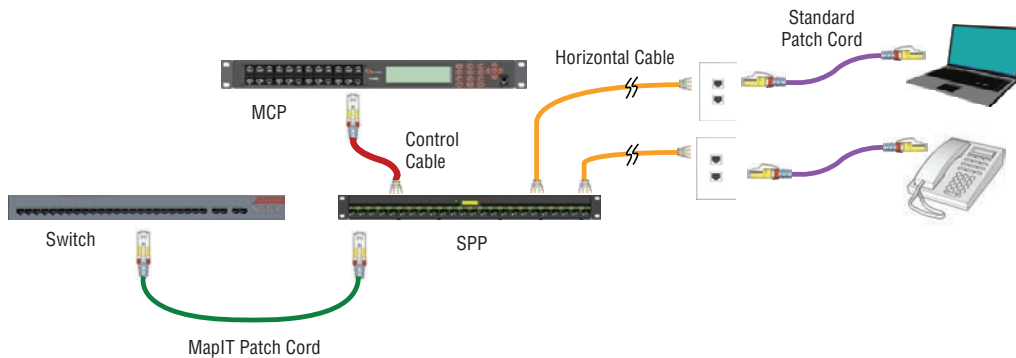
By reducing the number of patch panels and associated connectivity, installation and testing time is dramatically reduced

**Increased Density —**

As the interconnect topology uses half the number of patch panels versus cross-connect, cabinet/rack density is greatly improved. For even greater density, use the angled version of Siemon's SPP or S/FTP TERA

**User-Friendly Module —**

Simple, single-button functionality combined with on-board LCD display that provides technicians with clear instructions and status information allows intelligent links to be deployed in seconds



## MapIT G2 Interconnect Module

The MapIT G2 Interconnect Module is used to create a link between the switch and Smart Patch Panel port connections during initial installation or during moves, adds and changes. One per MCP required.

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



# MapIT® G2 Category 7A TERA® System

The MapIT G2 TERA system combines two best-in-class systems in one. The MapIT G2 Automated Infrastructure Management (AIM) system is available in a fully shielded TERA solution. TERA, already the highest performing and most secure twisted pair cabling system, now features MapIT G2 technology built into the Category 7<sub>A</sub>/Class F<sub>A</sub> patch panels and cords. This combination of intelligent TERA hardware and Siemon EagleEye® Connect software delivers real-time tracking and management of network-wide physical layer activity and IT assets. This benchmark AIM solution offers users a truly unparalleled level of performance, security and control.

**Robust** — Lightweight, high strength steel with black finish integrates outlet retention and cable management. Panel includes Quick-Ground technology for shielded systems

**Green** — MapIT G2 uses 78% less power than competing systems

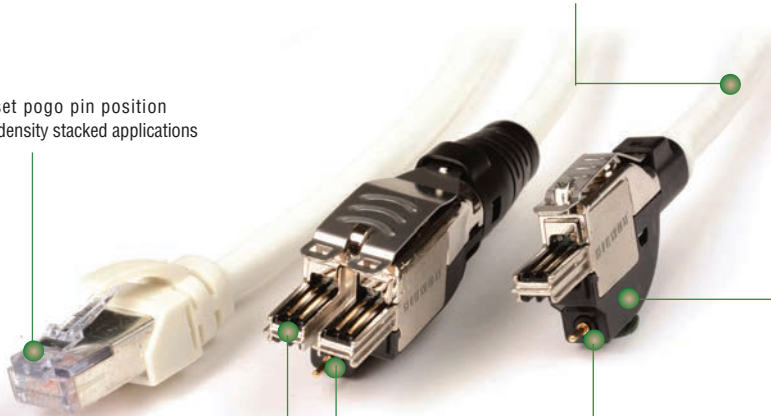


**Smart** — Panel intelligence tracks patch cord connections and drives LCD/LEDs for technician guidance

**Installation Friendly** — Individual outlets snap into panel from the front or rear. Angled panel design allows patch cords to be routed directly to vertical cable managers

**Fully Shielded** — S/FTP construction provides 1000 MHz bandwidth per pair

**Compact** — Off-set pogo pin position optimised for high density stacked applications



**Mapping** — Sensor pin is accessible at the rear of the boot for test and mapping purposes

**Quality** — Plug contacts and sensor pins feature 50 microns of gold plating for long-term reliability and resistance to corrosion

**Flexible** — A variety of TERA 4-pair and 2-pair to RJ45 patch cords allow easy connection to any RJ45 equipped active electronics



Trace and display patch cord connections on the patch panel LCD

A complete circuit trace can be viewed on-screen at the MCP or DCP

TERA supports cable sharing allowing multiple 2-pair applications to run over one 4-pair cable and outlet, saving significant material and pathway space

## Ordering Information:

### MapIT® G2 TERA® Patch Panel

M-SPPA-T24K . . . . . MapIT G2 TERA panel, 24 ports, angled, black, 1U, includes TERA outlets

M-SPPA-T24-01K . . . . . MapIT G2 Ready TERA panel, 24 ports, angled, black, 1U, includes TERA outlets

### Ready Panel Upgrade to MapIT G2

M-SPPAT-PCBA-24 . . . . . MapIT G2 TERA panel upgrade kit, PCB



### MapIT G2 TERA Patch Cords - 4 Pair

M-T4-(XX)M-B(XX)L . . . . . TERA-TERA cable assembly, ivory jacket, coloured boot, LSOH

Cord Length		Boot Colour	
01 = 1m (3.3 ft.)	02 = 2m (6.6 ft.)	01 = Black	02 = White
03 = 3m (9.8 ft.)	05 = 5m (16.4 ft.)	03 = Red	04 = Grey
		06 = Blue	



### MapIT G2 TERA Patch Cords - 2 Pair

M-T2E2-(XX)M-B(XX)L . . . . . TERA to Category 5e screened RJ45 cable assembly, ivory jacket, coloured boot, LSOH

Cord Length		Boot Colour	
01 = 1m (3.3 ft.)	02 = 2m (6.6 ft.)	01 = Black	02 = White
03 = 3m (9.8 ft.)	05 = 5m (16.4 ft.)	03 = Red	04 = Grey
		06 = Blue	

### MapIT G2 TERA - to - Modular Patch Cords - 4 Pair

M-T4(X)-S(XX)M-B(XX)L . . . . . TERA - RJ45 cable assembly Category 6A, ivory jacket, coloured boot, LSOH

Cord Length		Boot Colour	
01 = 1m (3.3 ft.)	02 = 2m (6.6 ft.)	01 = Black	02 = White
03 = 3m (9.8 ft.)	05 = 5m (16.4 ft.)	03 = Red	04 = Grey
		06 = Blue	

**Wiring**  
**A** = T568B  
**T** = T568A

## Optional Accessories

### Category 5e Shielded Cable for Bus (Control Cable) Connections

9A5R4-E1-(XX)-R1A . . . . . Riser, 305m (1000 ft.) reel (North America)

9A5R4-E2 . . . . . Riser, blue, 305m (1000 ft.) Reel-in-box

### Modular Plug for Bus Connections

PS-8-8 . . . . . 8-Position shielded modular plug with 8 contacts

# MapIT® G2 Smart Patch Panel

The MapIT G2 Smart Patch Panel (SPP) is an industry first in intelligent infrastructure management. The panel features on-board intelligence and a combination of LEDs and a backlit LCD to guide technicians. The LCD can be used to display patch cord trace and connectivity diagnostic information. It can also be used to troubleshoot network issues, which can drastically reduce downtime and increase productivity. Also, since it is actively connected to your database, the LCD could be used as a virtual label, dynamically displaying panel and port information directly from Siemon EagleEye™ Connect software.



**Smart** — on panel intelligence tracks patch cord connections and drives LCD/LEDs for technician guidance

**High Density** — 24 ports in a compact design, angled version also available

**Green** — MapIT G2 uses up to 78% less power than competing systems



**Robust** — Single piece construction integrates outlet retention and cable management. Panel includes Quick-Ground technology for shielded systems

**Reliable** — Panels have been tested to 20-years MTBF. All active components are field serviceable

**Simple** — Control connections to the MCP or DCP are made on the back of the patch panel with Category 5e solid shielded cable



Trace patch cord connections

With a touch of the probe pen a complete end-to-end circuit trace is shown on-screen at the MCP or DCP

Custom system cables are a thing of the past. Now, Category 5e solid shielded cable can be terminated in the field for all control connections

## Ordering Information:

### MapIT® G2 Smart Patch Panel

M-SPP(X)-K24NS..... 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



### 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), Siemon EagleEye® Connect software sold separately

Use (X) to specify panel type: Blank = Flat, A = Angled

## Optional Accessories

### Siemon Keystone Outlets

Z6A-SK(XX)..... Keystone shielded Z-MAX 6A outlet  
Z6A-K(XX)..... Keystone unshielded Z-MAX 6A outlet  
Z6-K(XX)..... Keystone unshielded Z-MAX 6 outlet  
MX6-K01..... Keystone unshielded MAX 6 outlet, black

Use (XX) to specify colour:

01 = Black, 02 = White, 03 = Red, 04 = Grey, 05 = Yellow, 06 = Blue, 07 = Green,  
09 = Orange, 20 = Ivory, 25 = Bright White, 80 = Light Ivory



Shielded Keystone  
Z-MAX



Unshielded Keystone  
Z-MAX



Unshielded Keystone  
MAX 6



# MapIT® G2 Copper Systems

## MapIT G2 Patch Cords

These advanced cords also feature a 9th wire and sensor pin contained in a robust over-moulded boot.

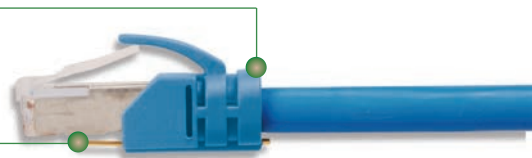
This embedded sensor technology enables tracking of connections between Smart Patch Panel ports.

**Supports Siemon's High-Performance Systems** — Category 6<sub>A</sub> shielded, Category 6<sub>A</sub> UTP and Category 6 UTP

**Robust Strain Relief** — Over-moulded boots provide plug to cable strain relief and retention of sensor pin. 100% transmission testing ensures component and channel performance

**Reliable Integrated Sensor Connections** — Sensor pins feature 50 microinches gold plating for long-term contact reliability and resistance to corrosion

**Simple Testing Features** — Sensor pin is accessible at the rear of the boot for test and mapping purposes



### Ordering Information:

M-10GMCS-(XX)M(XX)L. . . . . MapIT G2 Category 6<sub>A</sub> shielded, double-ended, stranded modular cord, colour-matching boot, T568A/B, LS0H

- |                           |                  |
|---------------------------|------------------|
| <b>Jacket Colour</b>      |                  |
| <b>02</b> = White         | <b>04</b> = Grey |
| <b>06</b> = Blue          |                  |
| <b>Length</b>             |                  |
| <b>01</b> = 1m (3.3 ft.)  |                  |
| <b>02</b> = 2m (6.6 ft.)  |                  |
| <b>03</b> = 3m (9.8 ft.)  |                  |
| <b>05</b> = 5m (16.4 ft.) |                  |

M-MC6-(XX)-(XX). . . . . MapIT G2 Category 6 UTP, double-ended, stranded modular cord, colour-matching boot, T568A/B, CMG

- |                            |                  |
|----------------------------|------------------|
| <b>Jacket Colour</b>       |                  |
| <b>02</b> = White          | <b>04</b> = Grey |
| <b>06</b> = Blue           |                  |
| <b>Length</b>              |                  |
| <b>03</b> = 0.91m (3 ft.)  |                  |
| <b>05</b> = 1.52m (5 ft.)  |                  |
| <b>07</b> = 2.13m (7 ft.)  |                  |
| <b>10</b> = 3.05m (10 ft.) |                  |
| <b>15</b> = 4.57m (15 ft.) |                  |
| <b>20</b> = 6.10m (20 ft.) |                  |



M-10GMC-(XX)-(XX). . . . . MapIT G2 Category 6<sub>A</sub> UTP, double-ended, stranded modular cord, colour-matching boot, T568A/B, CMG

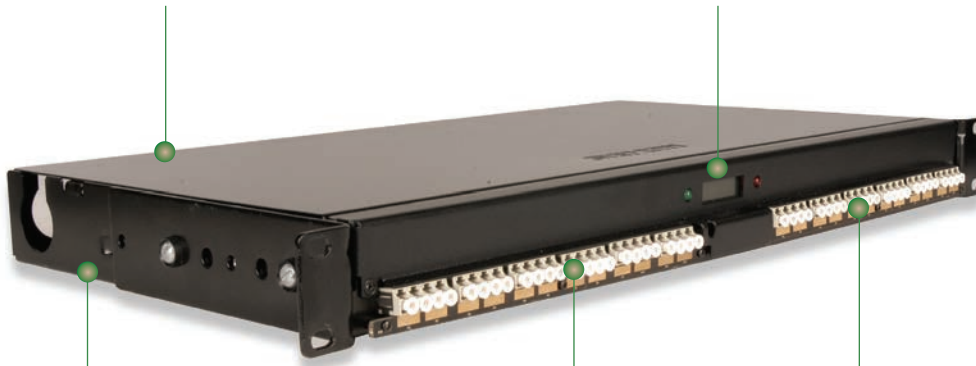
- |                            |                  |
|----------------------------|------------------|
| <b>Jacket Colour</b>       |                  |
| <b>02</b> = White          | <b>04</b> = Grey |
| <b>06</b> = Blue           |                  |
| <b>Length</b>              |                  |
| <b>03</b> = 0.91m (3 ft.)  |                  |
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| <b>10</b> = 3.05m (10 ft.) |                  |
| <b>15</b> = 4.57m (15 ft.) |                  |
| <b>20</b> = 6.10m (20 ft.) |                  |

# MapIT® G2 Smart Fibre Enclosures

The MapIT G2 Smart Fibre Enclosures are an industry first in automated infrastructure management. Available in both MTP-to-LC Plug and Play and LC-to-LC field terminated versions, the enclosures feature on panel intelligence and a combination of LEDs and a backlit LCD to guide technicians. The LCD can be used to display patch cord trace, work orders and connectivity diagnostic information. It can also be used to troubleshoot network issues, which can drastically reduce downtime and increase productivity. Also, since it is actively connected to your database, you could even use it as a virtual label, dynamically displaying panel and port information directly from the Siemon's EagleEye® Connect software.

**High Performance** — Available in OM4 and OS1/OS2 MTP Plug and Play versions as well as Multimode and Singlemode LC field-terminated connectivity

**Smart** — on panel intelligence tracks fibre jumper connections and drives LCD/LEDs for tech guidance

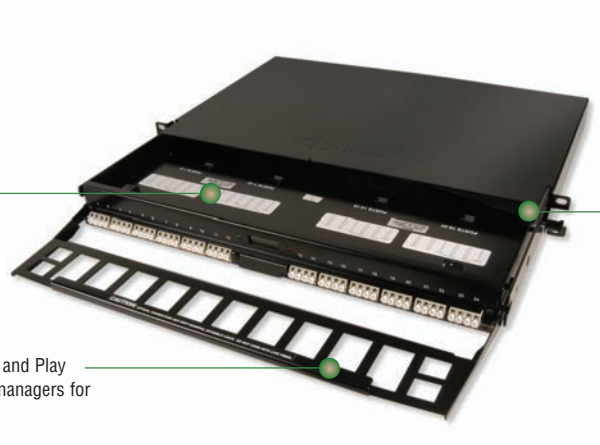


**Green** — MapIT G2 uses up to 78% less power than competing systems and run cool for reduced heat generation

**High Density** — Up to 48 fibres in a single 1U space

**Scalable** — MapIT G2 Smart Enclosures can support systems ranging from small, two enclosure remote sites to large 1000 + panel data centres

**Plug and Play** — Multi-fibre MTP connectivity provides ultra-fast deployment in mission-critical data centres



**High Accessibility** — MTP Plug and Play versions feature sliding drawer for easy access to connectivity

**Fibre Management** — MTP Plug and Play versions feature integrated fibre managers for secure jumper routing

## MapIT® G2 Smart Fibre Enclosures

### MTP-to-LC Plug and Play Fibre Enclosure - SMTP

- M-SMTP-LC5V48NS.....MapIT G2 LC 48-fibre MTP-to-LC smart fibre enclosure, black, Multimode, OM4  
Includes 2 MTP adapters, 24 duplex MM/LC aqua adapters, cable ties, panel ground lug, fibre management clips, front management bar, label holder and labels
- M-SMTP-LCSM48NS.....MapIT G2 LC 48-fibre MTP-to-LC smart fibre enclosure, black, Singlemode, OS1/OS2  
Includes 2 MTP adapters, 24 duplex SM/ LC blue adapters, cable ties, panel ground lug, fibre management clips, front management bar, label holder and labels

### LC-to-LC Fibre Enclosure - SFE

- M-SFE-LC48-NS.....MapIT G2 LC 48-fibre smart fibre enclosure, black, Multimode OM3/OM4  
Includes 24 duplex MM/LC aqua adapters, cable ties, panel ground lug, fibre management clips, label holder and labels
- M-SFE-LC48-NSC.....MapIT G2 LC 48-fibre smart fibre enclosure, black, Singlemode  
Includes 24 duplex SM/LC blue adapters, cable ties, panel ground lug, fibre management clips, label holder and labels



## MapIT G2 Ready Fibre Enclosures

### MTP-to-LC Plug and Play Fibre Enclosure

- M-MTP-LC5V48-01.....MapIT G2-Ready MTP-to-LC enclosure, black, Multimode\*, OM4  
Includes 2 MTP adapters, 24 duplex MM/LC aqua adapters, cable ties, panel ground lug, fibre management clips, front management bar, label holder and labels

### LC-to-LC Fibre Enclosure

- M-FE-LC48-01\*.....MapIT G2-Ready enclosure, black, Multimode\* OM3/OM4  
Includes 24 duplex MM/LC aqua adapters, cable ties, panel ground lug, fibre management clips, label holder and labels

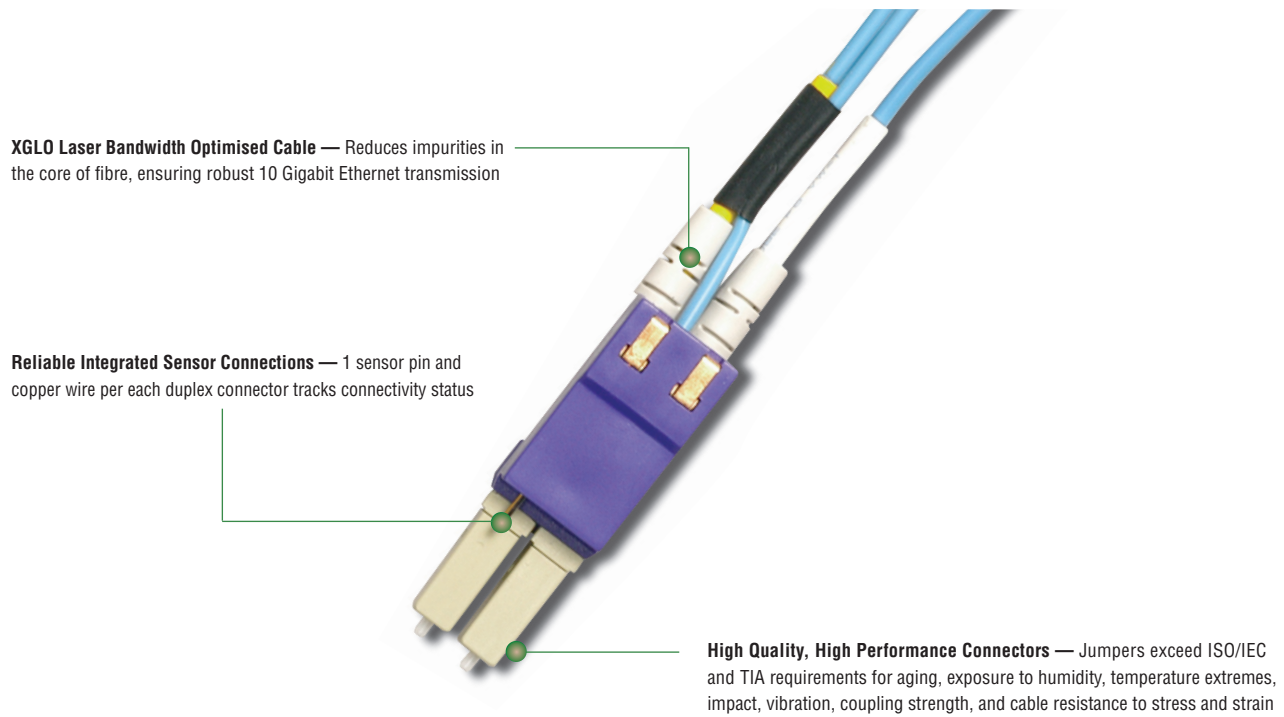
### Upgrade Kit for MapIT G2-Ready Fibre Enclosures

- M-SFE-PCBA-24.....MapIT G2 upgrade kit for MapIT G2-Ready fibre enclosure  
(Upgrade kit includes PCB with built-in sensor pads, LED's and LCD display, new front panel cover, additional mounting hardware and components with instructions), Siemon EagleEye® Connect software sold separately

*\*Singlemode available, contact Customer Service for more information*

## MapIT® G2 XGLO® Jumpers

XGLO MapIT G2 jumpers are built to be the best. These assemblies are constructed with premium fibre that meets IEEE, IEC and TIA specifications for 10 Gigabit Ethernet serial transmission. These advanced cords feature patented MapIT sensor technology — gold-plated sensor pins retained in robust moulded connector clips. These jumpers enable tracking of port connections between MapIT G2 fibre enclosures and LAN equipment.



**XGLO Laser Bandwidth Optimised Cable** — Reduces impurities in the core of fibre, ensuring robust 10 Gigabit Ethernet transmission

**Reliable Integrated Sensor Connections** — 1 sensor pin and copper wire per each duplex connector tracks connectivity status

**High Quality, High Performance Connectors** — Jumpers exceed ISO/IEC and TIA requirements for aging, exposure to humidity, temperature extremes, impact, vibration, coupling strength, and cable resistance to stress and strain

### Ordering Information

#### MapIT G2 XGLO Multimode Duplex Jumpers:

M-J2-LCLC(XX)-(XX). . . . . LC-LC duplex jumper, MapIT G2 XGLO 50/125 laser optimised Multimode fibre, aqua jacket

Fibre Type	Length
5L = OM3	01 = 1m (3.3 ft.)
5V = OM4	03 = 3m (9.8 ft.)
	05 = 5m (16.4 ft.)

#### MapIT G2 XGLO Singlemode Duplex Jumpers:

M-J2-LCULCUL(XX). . . . . LC-LC duplex jumper, MapIT G2 XGLO OS1/OS2 Singlemode fibre, yellow jacket

Length
01 = 1m (3.3 ft.)
03 = 3m (9.8 ft.)
05 = 5m (16.4 ft.)