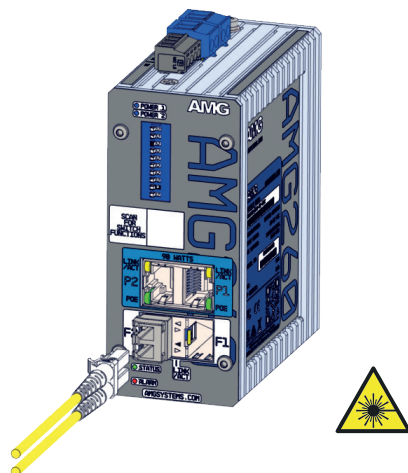


/ INTERFACE CONNECTIONS

- ① Insert the SFP module into the SFP slot(s).
- ② Insert the Cat5/6 cable into the RJ45 port(s).
- ③ Insert the fiber patch cable(s) into the SFP module(s).



/ PORT SPEEDS

Example part code:

AMG260-2GAT-2S-P60

Character	RJ45 Port Speed	SFP* Port Speed
F	10/100 Base-T(X)	100/1000 Base-FX
G	10/100/1000 Base-T(X)	

*SFP's supplied separately. Refer to AMG website and SFP Datasheets for available models.

/ POE CAPABILITIES

Example part code:

AMG260-2GBT-2S-P180

Ensure the PSU size used is at least equal to the maximum PoE budget figure.

Characters	PoE Standard Supported	Characters	PoE Budget
None	Non-PoE Model	P60	60W Max
AT	IEEE 802.3at 30W Port	P180	180W Max
BT	IEEE 802.3bt 60/90W Port	PD	Class 1 PD

Check the product label to determine the PoE power supported on each port and the units total maximum PoE budget.

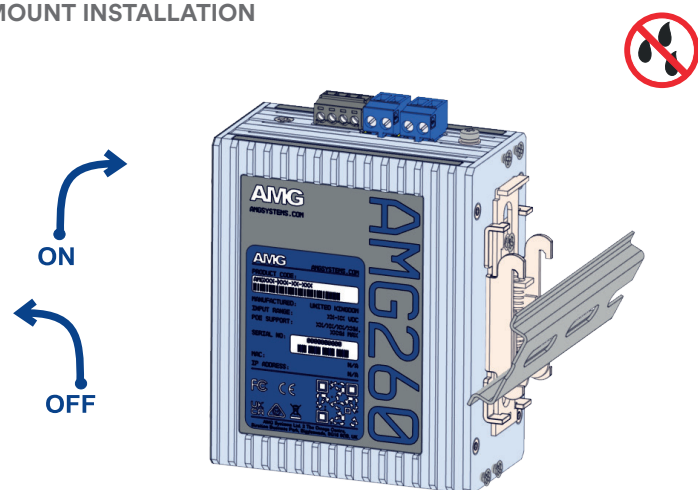
IEEE 802.3at Models
Type 1 & 2 PoE support
Mode A PSE only

IEEE 802.3bt Models
Type 1, 2, 3 & 4 PoE support. Mode A and/or Mode B PSE

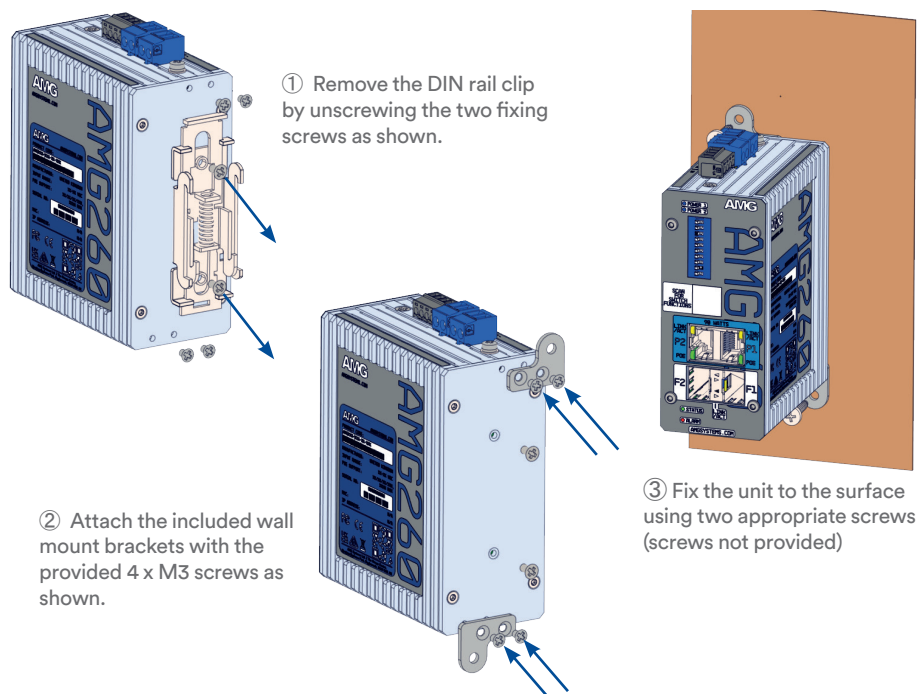
AMG260 2+2 Series Industrial Media Converter/ Unmanaged Switch

Installation Manual - Hardware

/ DIN RAIL MOUNT INSTALLATION



/ SURFACE MOUNT INSTALLATION

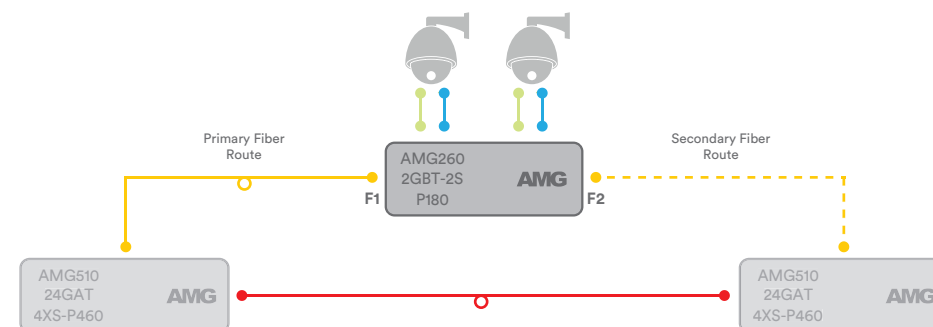


1 Optional magnetic mounting kit is available separately. Order part code: AMGMNT-MAG-04

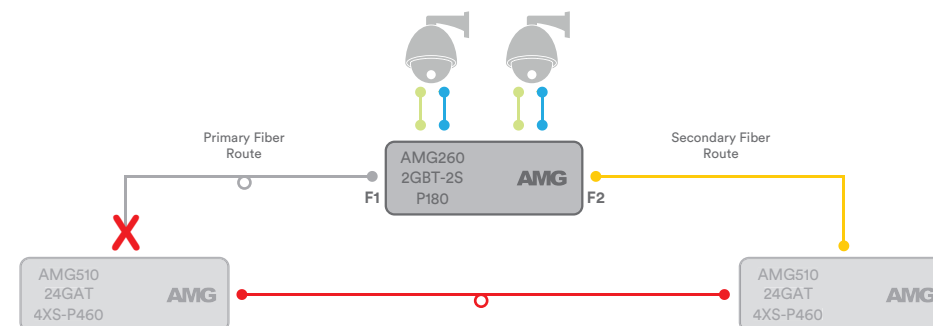
/ DIP SWITCH 10 - DUAL REDUNDANT SFP UPLINK

Note: This switch function is only applicable when DIP switch 9 is set to OFF position (4 Port Unmanaged Switch Mode)

Legend		CAT5e 1Gb
		PoE 90W
		Fiber 100Mb/1Gb
		Fiber 10Gb



Switching DIP switch 10 to the ON position will enable the Dual Redundant SFP Uplink feature. By default the traffic from the AMG260 will be sent over the Primary SFP only (F1). The Secondary SFP (F2) will be held as a backup link (but remains in a link-up state).



The feature is activated by the Primary SFP port (F1) going into a link down state. The Secondary SFP port (F2) is then used to send all traffic using the backup link.

The unit will use the setting from DIP switch 7 (Redundancy F1 Revert Mode) to determine what happens after the switch over to F2 has happened. If DIP switch 7 is in the OFF position F2 will continue to be used until there is a link down state on F2 at which point the unit will attempt to switch back to the Primary SFP port (F1). If DIP switch 7 is in the ON position the unit will revert back to the Primary SFP port (F1) as soon as this link comes back up.

/ DIP SWITCH 7 - REDUNDANCY F1 REVERT MODE

The Redundancy F1 Revert Mode feature is designed to operate in conjunction with the Dual Redundant SFP Uplink feature (DIP Switch 10) and determines how the unit operates after the primary link has failed.

Note: This switch function is only applicable when DIP switch 9 is set to OFF position (4 Port Unmanaged Switch Mode) and DIP switch 10 is set to the ON position (Dual Redundant SFP Uplink)

DIP Switch 7 - OFF Position

If DIP switch 7 is in the OFF position when the Primary link fails (F1) then F2 will continue to be used until there is a link down state on F2 at which point the unit will attempt to switch back to the Primary SFP port (F1).

DIP Switch 7 - ON Position

If DIP switch 7 is in the ON position when the Primary link is re-established following a failure (F1) the unit will revert back to the Primary SFP port (F1) as soon as this link comes back up.

/ DIP SWITCH 9 - DUAL MEDIA CONVERTER / 4 PORT UNMANAGED SWITCH

The Dual Media Converter / 4 Port Unmanaged Switch feature provides two different operation modes for the AMG260 2+2 device as outlined below:

DIP Switch 9 - OFF Position

If DIP switch 9 is in the OFF position the AMG260 2+2 device will operate as a standard unmanaged 4 port switch. In this mode traffic can pass between all 4 ports on the device based on the devices standard MAC address table.

DIP Switch 9 - ON Position

If DIP switch 9 is in the OFF position the AMG260 2+2 device will operate as a dual media converter. In this mode the unit provides 2 dedicated media converters in one device which are segregated from each other:

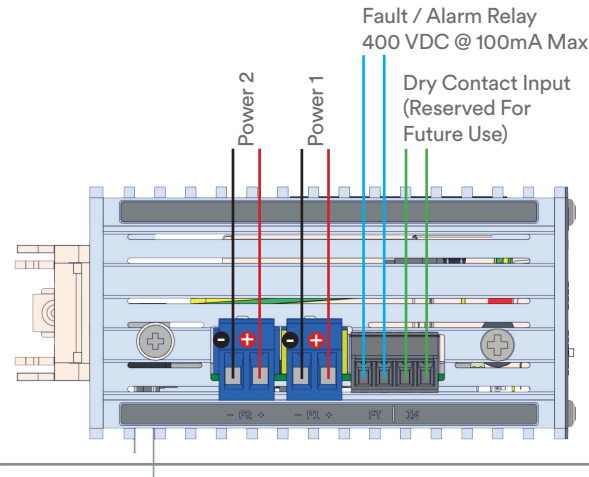
- P1 <-> F1
- P2 <-> F2

Traffic from P1 and F1 cannot pass to either P2 or F2 and traffic from P2 and F2 cannot pass to either P1 or F1 ensuring two dedicated channels.

/ POWER

- Fault relay is normally closed and will open on either power failure or any of the fault conditions listed below:
- SFP Link Loss
 - Link Fault Pass-Through Triggered
 - Remote Device Reset Triggered
 - Redundant SFP Switch Over Triggered

Model Type	Voltage
Non-PoE Models	12-56 VDC
30W PoE Models	48-56 VDC
90W PoE Models	52-56 VDC



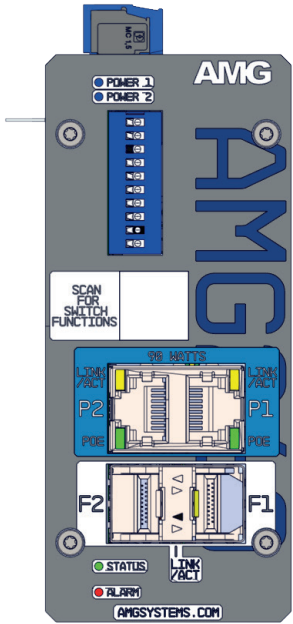
Model Type	Power
DC Models	4W Max*
PD Model	802.3af Class 1

*Excludes PoE Load



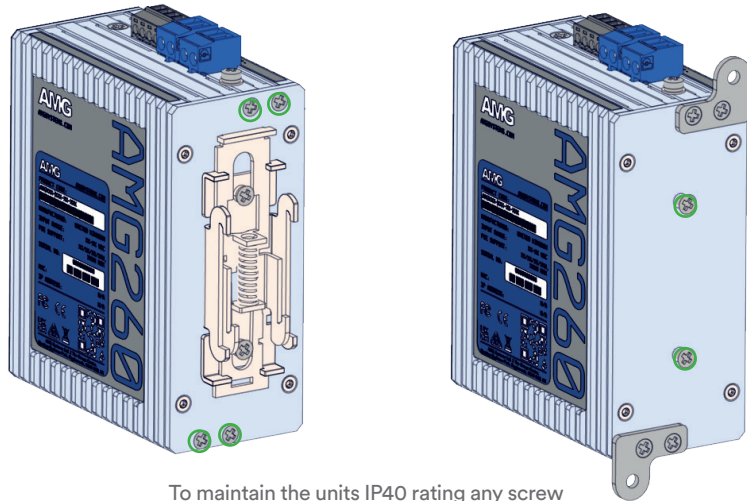
Warning
Do not exceed the rated voltage
Observe correct voltage polarity

/ LED INDICATORS



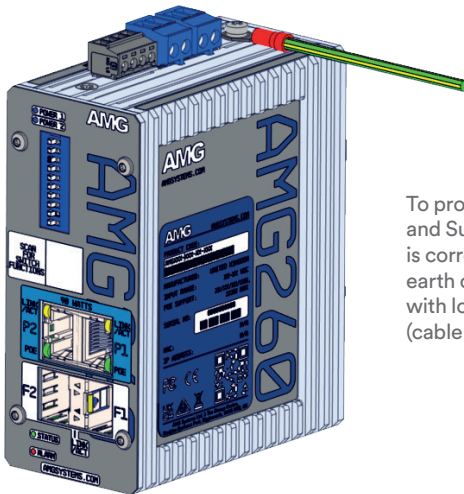
LED	Colour	Description
POWER 1	Blue	DC input present on Power 1
POWER 2	Blue	DC input present on Power 2
STATUS	Green	Unit CPU operating correctly
ALARM	Red	Alarm condition triggered
SFP LINK/ACT	Off	No SFP link connection
	Green	SFP link present (flashes with data traffic activity)
RJ45 LINK/ACT	Off	No Ethernet link connection
	Green	Ethernet link present (flashes with data traffic activity)
RJ45 POE	Flashing	No PoE being supplied
	Yellow	PoE is being delivered
RJ45 PD	Off	No PoE input detected
	Yellow	PoE input is active

/ IP RATING



To maintain the units IP40 rating any screw holes that are not used should still have their screws installed as shown in green above.

/ EARTH PROTECTION



To provide correct protection from ESD and Surge events ensure that the unit is correctly earthed using the provided earth connection point in accordance with local electrical codes & standards. (cable not provided)

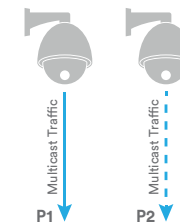
/ DIP SWITCH 6 - DIRECTED TRAFFIC MODE



The Directed Traffic Mode feature is designed to prevent network video flooding of multicast traffic on the dual port AMG260 media converter.

Note: This switch function is only applicable when DIP switch 9 is set to OFF position (4 Port Unmanaged Switch Mode)

DIP Switch 6 - OFF Position

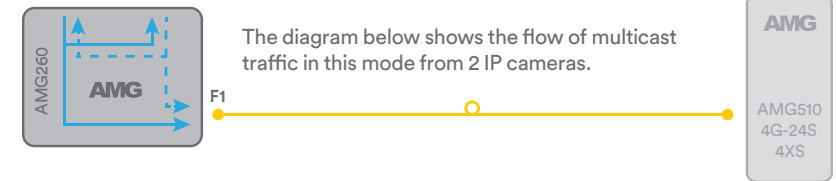


In this mode the AMG260 media converter operates as a standard 4-port layer 2 unmanaged switch.

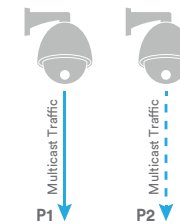
Data flow will follow standard MAC address mapping across all 4 ports (2x RJ45 and 2x SFP).

Any broadcast or multicast traffic will be sent to all ports except the port on which it was received. This can cause local unwanted flooding to occur.

The diagram below shows the flow of multicast traffic in this mode from 2 IP cameras.



DIP Switch 6 - ON Position

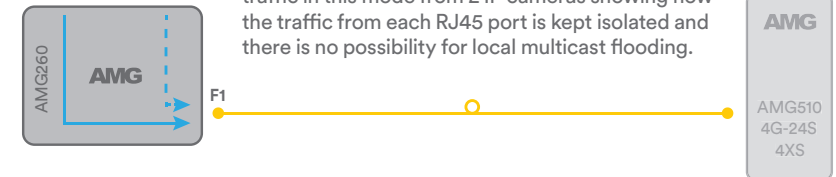


In this mode inbound traffic to the RJ45 ports (P1 & P2) and SFP port F1 is only forwarded to the SFP uplink port (F2).

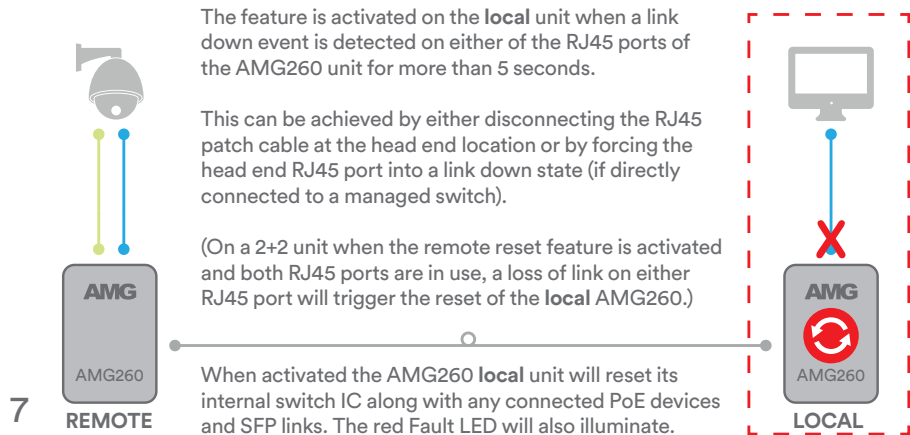
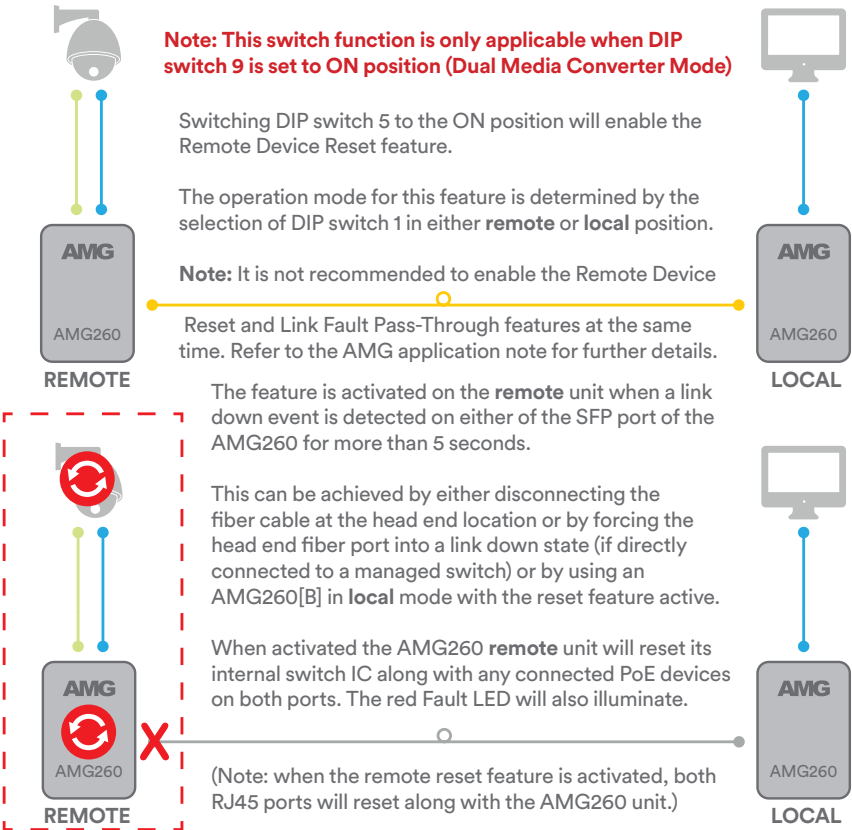
Inbound traffic from P1, P2 and F1 cannot appear on any port except F2.

This prevents broadcast and multicast traffic from flooding to the other local RJ45 port. Incoming traffic from the uplink SFP port (F2) follows standard MAC address mapping.

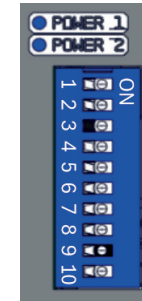
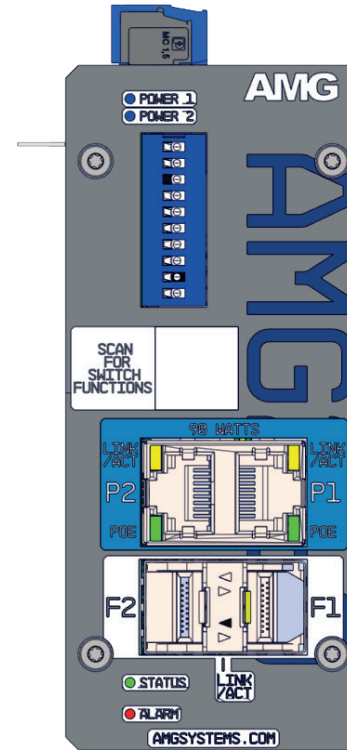
The diagram below shows the flow of multicast traffic in this mode from 2 IP cameras showing how the traffic from each RJ45 port is kept isolated and there is no possibility for local multicast flooding.



/ DIP SWITCH 5 - REMOTE DEVICE RESET



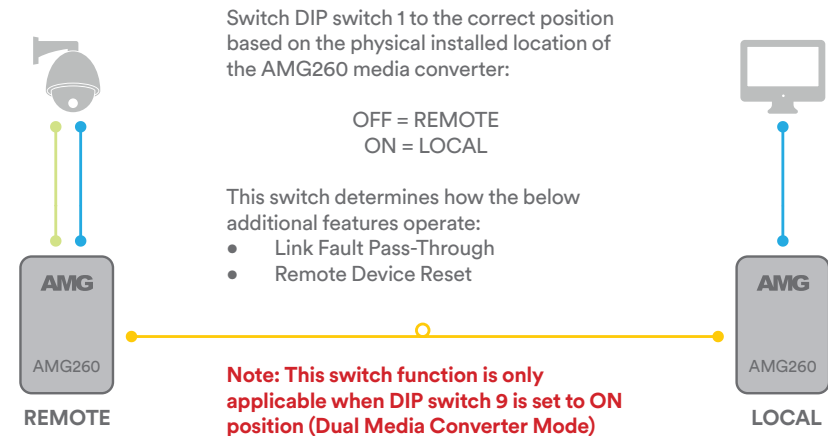
/ DIP SWITCHES



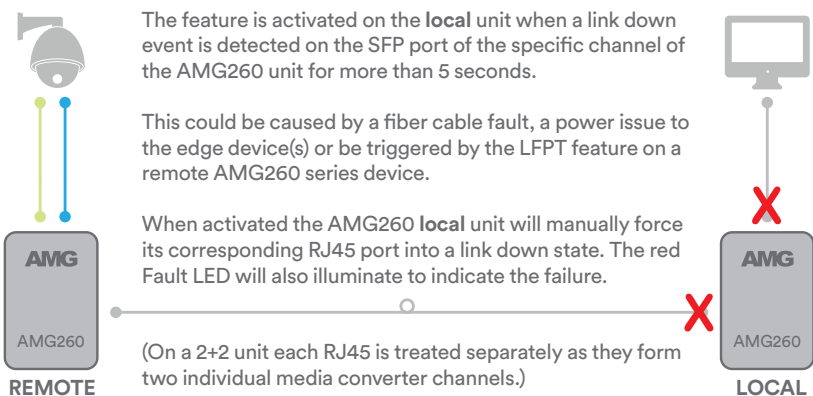
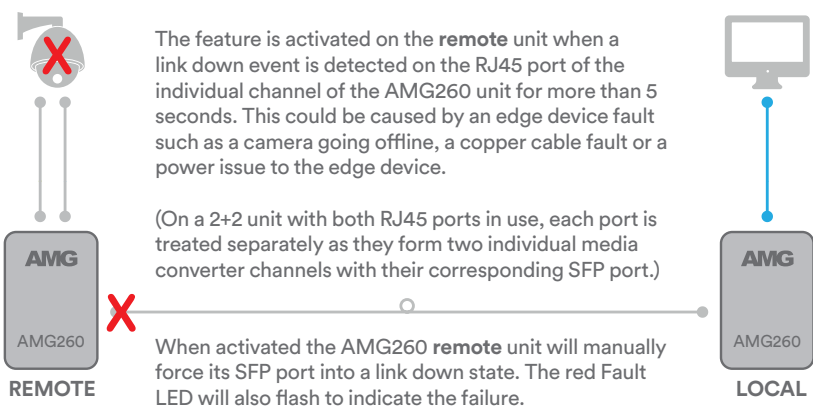
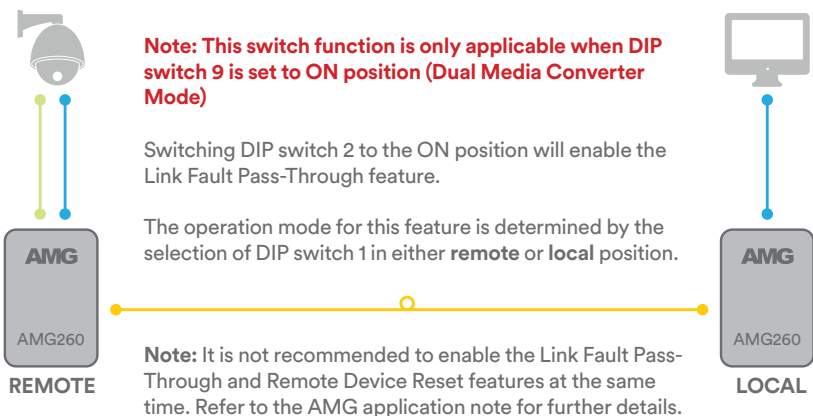
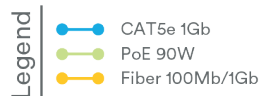
For detailed DIP switch information refer to the following pages in the manual or scan the above QR code or visit the AMG support webpage: amg-support.com/AMG260DIP2

Switch	Description
1	Remote / Local Device Mode
2	Link Fault Pass-Through
3	P1 250M Extended Distance Mode
4	P2 250M Extended Distance Mode
5	Remote Device Reset
6	Directed Traffic Mode
7	Redundancy F1 Revert Mode
8	Reserved
9	Dual Media Converter / 4 Port Unmanaged Switch Mode
10	Redundant SFP Mode

/ DIP SWITCH 1 - REMOTE/LOCAL DEVICE MODE



/ DIP SWITCH 2 - LINK FAULT PASS-THROUGH



/ DIP SWITCH 3 & 4 - 250M EXTENDED DISTANCE

