Suminet

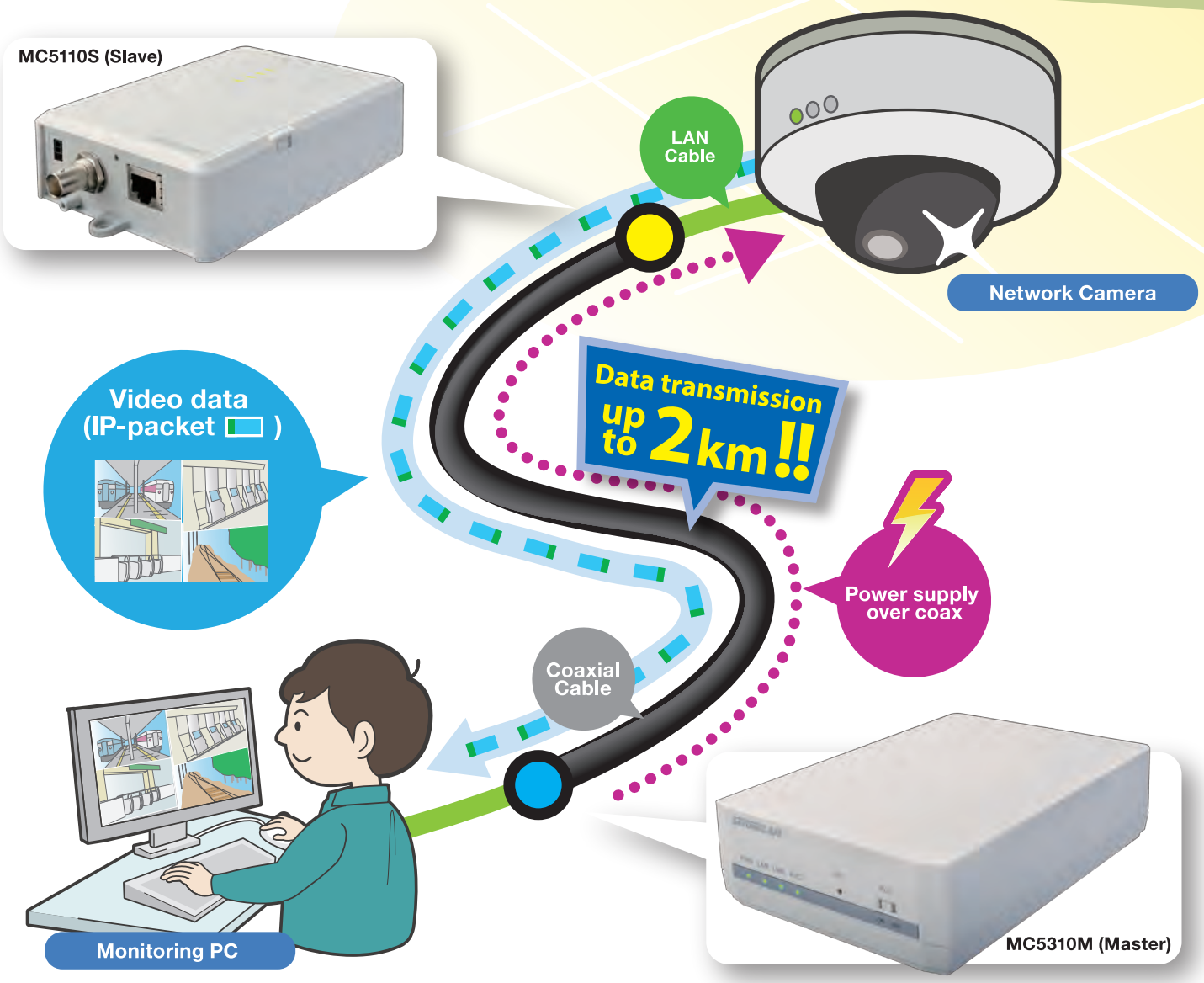
Optimized for Network Cameras

ACLC®

SecondLAN® Series

High-speed Coaxial Modems

Optimum solution for network cameras offering IP-based video transmission and power supply via existing coax



Key features

This solution is particularly attractive if you are looking for a way to replace analog cameras with network cameras. It enables you to build IP network systems easily at low cost by simply connecting modems to existing coaxial cables.
New LAN cables (such as UTP or optical cables) are not necessary.

- Enables long distance communications up to 2 km.
- Master can supply power to the network camera up to 500 m*1
- Offers the same connectivity levels as wired LAN.
- Maximum of four slave modems can be connected per master modem.
- Possible to restart network camera*2 by remote operation.

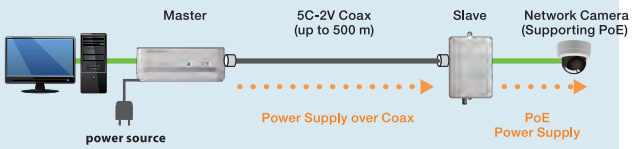
*1: In the case of using 5C-2V cable with no branching. *2: In the case of PoE power supply.

Specifications

Example of installation

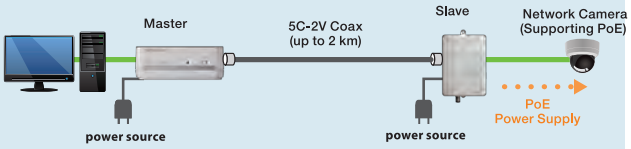
Coaxial Cables
UTP Cables

Standard Topology



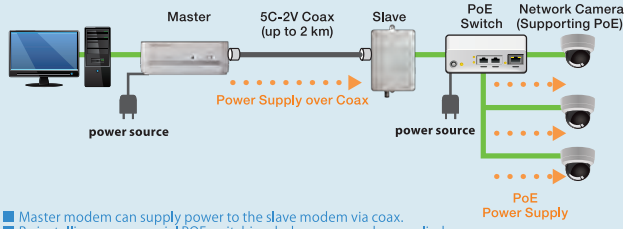
- Master modem can supply power to both the slave modem and the network camera via coax.
- No need to install power cables for the slave modem and the network camera.

Topology for Long-distance Transmissions



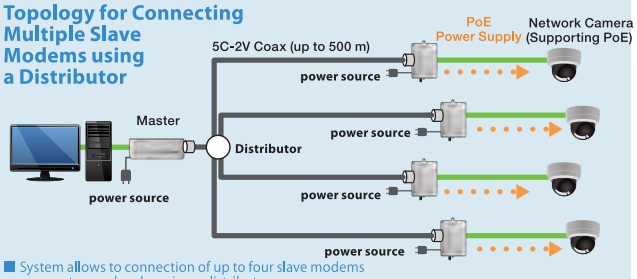
- Slave modem requires the MC5730A (AC adapter).
- Slave modem can supply power to the network camera using PoE.

Topology for Connecting Multiple Network Cameras (PoE)



- Master modem can supply power to the slave modem via coax.
- By installing a commercial POE switching-hub, power can be supplied to multiple network cameras.

Topology for Connecting Multiple Slave Modems using a Distributor



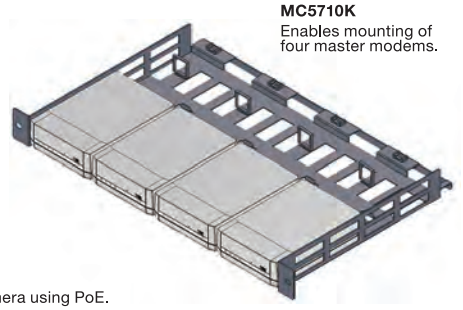
- System allows to connection of up to four slave modems per master modem by using a distributer.
- Each slave modem requires the MC5730A (AC adapter).
- Slave modems can supply power to the network cameras using PoE.

Product Name		MC5310M (Master)	MC5110S (Slave)
Modulation		OFDM	
Frequency		2-28 MHz	
Physical Speed		Maximum 155 Mbps (Theoretical value)*1	
No. of Connectable Slave Modems		Maximum four units	
No. of MAC Address Entries		Maximum 255*2	
Ethernet		100BASE-TX: 1 port	100BASE-TX: 1 port (Supporting PoE)
Coaxial	No. of Ports	BNC Type: 1 port	
	Maximum Transmission Distance	<When a Single Slave is Connected to One Master> 500 m (In the case where power supply for the network camera is required.)*3 2 km (In the case where power is not supplied to the network camera using PoE.)*3*4 <When Multiple Slaves are Connected to One Master> 500 m (Slave modems require AC power adapters.)	
Operating Environment	Temperature	0 to 50°C	-10 to 50°C
	Humidity	20 to 90% (Non-condensing)	
AC Power Adapter		Included	Not included (Optional)
Input Voltage		AC100-240V (50/60 Hz)	DC57V*5 or AC100-240V (50/60 Hz)
Electric Power Consumption		40 W or less*5*6	25 W or less*6
PoE Power Supply Capacity		–	Maximum 15.4 W (Corresponding to IEEE 802.3af Class 0)
External Dimensions (H x W x D)		40×105×150 mm (Excluding projections)	35×95×135 mm (Excluding projections)
Weight (Main Unit)		350 g (approx.)	310 g (approx.)
Installation Method		Rack mount (2U), flat stand-alone	Wall mount installation, flat stand-alone
Dust-proofing/Waterproofing		IP3X	IP33

Options

MC5710K: 19-inch Rack Mount Fittings
MC5730A: AC adapter (for master/slave)

MC5710K
Enables mounting of four master modems.



Cautions

■ The equipment specifications and designs described in this brochure may be changed for improvement without prior notice.
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*1: The effective speed is UDP 70 Mbps (upstream) or more, FTP 55 Mbps (upstream) or more.
*2: The number of terminals that can be connected to one modem is a maximum of 237 units.
*3: In the case of using 5C-2V cable with no branching.
*4: By connecting a power adapter to the slave modem, it is possible to supply electric power to the network camera using PoE.
*5: In the case where coaxial power supply is carried out from the master modem to the slave modem.
*6: Including the electric power consumed by the network camera.

Manufactured by:

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