DESCRIPTION

The GT-MCX is a network adaptor that will allow multiple GT Series systems to be connected over a network. A typical system, when expanded, will support up to 16 entrance stations, 4 video guard stations, and 500 tenant stations. When using the GT-MCX, up to 32 GT Series systems can be connected together allowing the total capacity of the system to grow to 480 entrance stations, 96 video guard stations, and 5,000 tenant stations.

The GT-MCX divides a large system into sections. There can be 24 tenant sections and 8 main sections. The tenant section can consist of entrance stations, video guard stations, and tenant stations. The main section can consist of entrance stations and video guard stations only. Each GT-MCX takes the place of 1 entrance station and 1 video guard station.

The GT-MCX can be used to update the GT Series system from the GT Support Tool when connected to the same logical network. Updating the system could include changing tenant names and dialing numbers on both the guard and entrance stations.
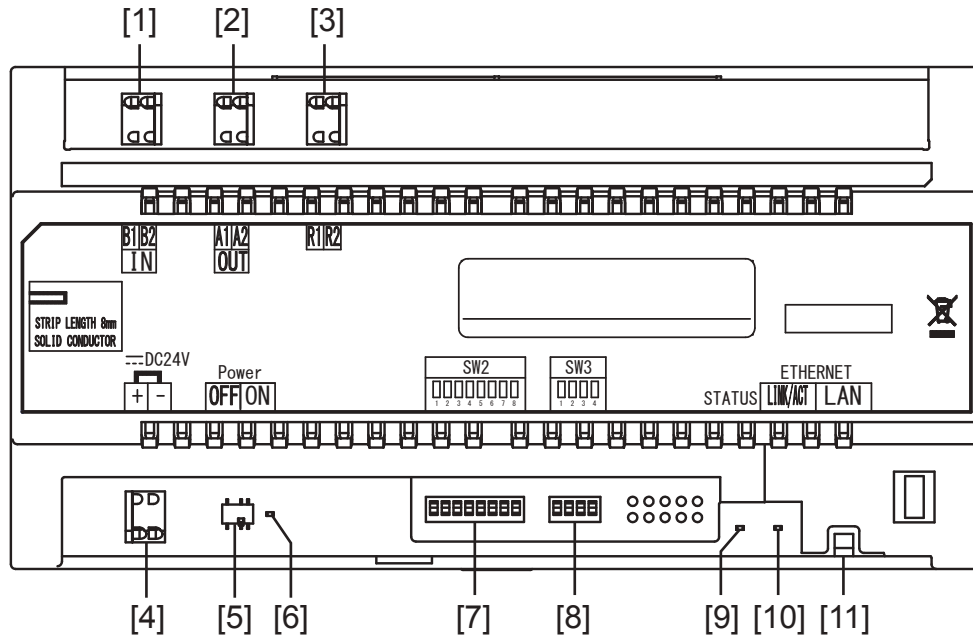
FEATURES

• Allows for network connectivity

• Remote programming device via network

• Connect systems/buildings together

• Expand system capacity to multiple buildings, accessible from common entrance and guard stations

GT-MCX Spec Sheet
0817 Pg. 1 of 2

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GT-MCX
Network Adaptor

FEATURE CALL-OUT

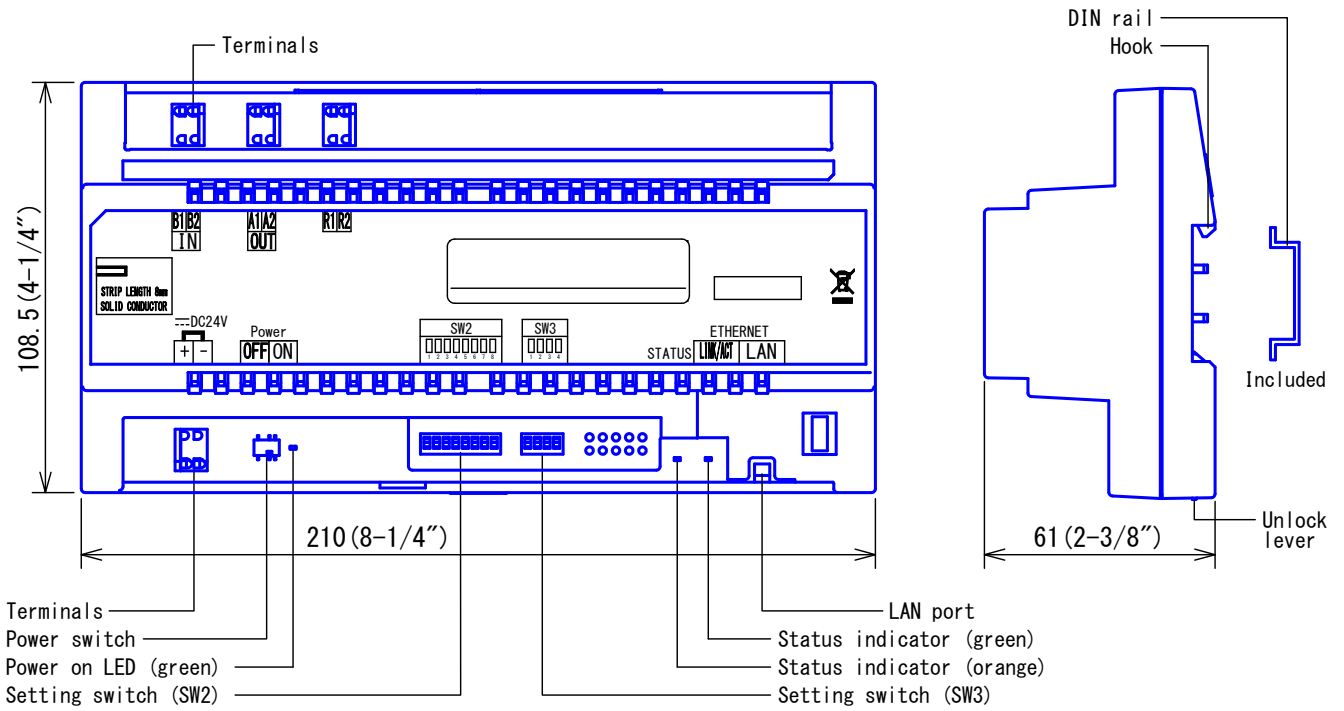## FEATURE CALL-OUT DEFINITIONS

[1] Video in terminals

[2] Video out terminals

[3] Audio terminals

[4] Power terminals

[5] Power switch

[6] Power on LED (green)

[7] Setting switch (SW2)

[8] Setting switch (SW3)

[9] Status indicator (orange)

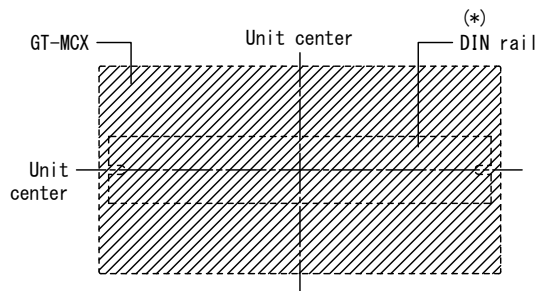[10] Status indicator (green)

[11] LAN port

SPECIFICATIONS

Power:	24V DC, PS-2420UL Standby 75mA, Maximum 125mA
Temp Rating:	32° ~ 104°F (0° ~ 40°C)
Mounting:	Din Rail (supplied)
Material:	ABS Resin
LAN:	Ethernet 100BASE-TX
Protocol:	IPv4, IPv6, TCP, UDP, IGMP, MLD, DHCP, NTP, DNS
Encryption:	TLS1.2
Dimensions:	8-¼" W x 4-¼" H x 2-⅜" D
Weight:	0.75 lbs (340g)

■PRODUCT DRAWING

Terminals

DIN rail
Hook

Included

Terminals
IN B1 B2
OUT A1 A2
R1 R2

STRIP LENGTH 6mm
SOLID CONDUCTOR

DC24V
+ −
Power
OFF ON

SW2
1 2 3 4 5 6 7 8

SW3
1 2 3 4

ETHERNET
STATUS LINK/ACT LAN

108.5 (4-1/4″)

210 (8-1/4″)

61 (2-3/8″)

Unlock lever

Terminals
Power switch
Power on LED (green)
Setting switch (SW2)

LAN port
Status indicator (green)
Status indicator (orange)
Setting switch (SW3)

●MOUNTING

・Mounting on wall surface

GT-MCX   Unit center   (*)
                                 DIN rail

Unit
center

* DIN rail: Included with the unit

DESCRIPTION	FIG. NAME		UNIT	DATE
MULTI-BUILDING CONTROL UNIT	PRODUCT DRAWING		mm	31 May, 2017
MODEL NO.	FIG. NO.	PAGE	REVISION	**AIPHONE**
GT-MCX	G55639-1-5	1/5	1	

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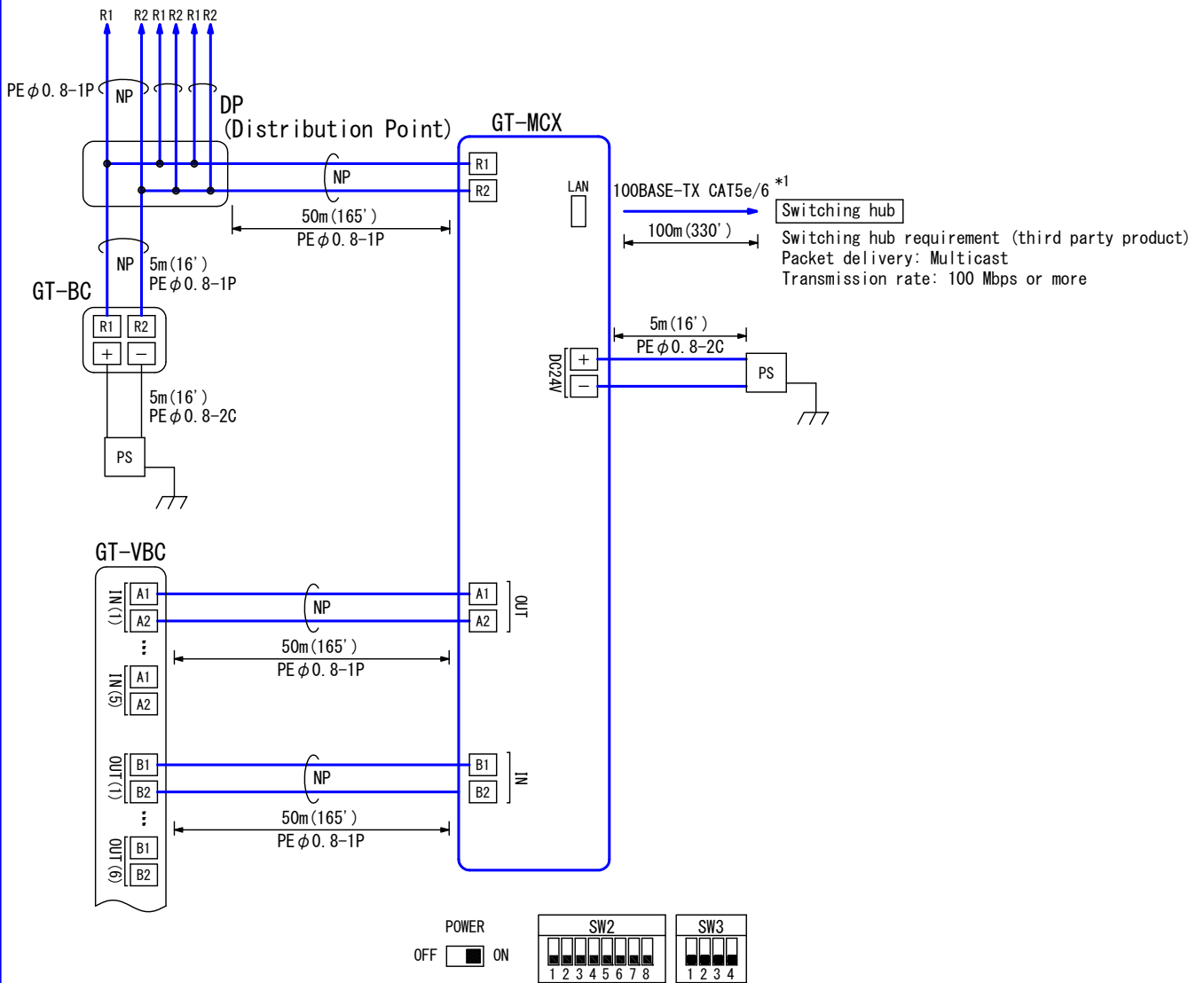
■SPECIFICATIONS

Power source		DC 24V. Supplied from a power supply unit(PS-2420 etc.)
Power consumption		Standby 75mA, Maximum 115mA
Ambient temperature		0～40℃(32～104°F)
Mounting		DIN rail
Material		Self-extinguishing ABS resin
Capacity	Standard system	
	Tenant section	
	Max.24 sections	
		Entrance station: Max.4 per section
		Guard station: Max.1 per section
		Residential/tenant station: Max.48 per section (GT-1D: max.100)
	Main section	
	Max.8 sections	
		Entrance station: Max.4 per section
		Guard station: Max.1 per section
	Expanded system	
	Tenant section	
	Max.24 sections	
		Entrance station: Max.15 (Common trunk line 1: max.7 Common trunk line 2: max.8) per section
		Guard station: Max.3 (Common trunk line 1: max.1, Common trunk line 2: max.2) per section
		Residential/tenant station: Max.500 per section, Max.5,000 per system
	Main section	
	Max.8 sections	
		Entrance station: Max.15 (Common trunk line 1: max.7 Common trunk line 2: max.8) per section
		Guard station: Max.3 (Common trunk line 1: max.1, Common trunk line 2: max.2) per section
LAN		Ethernet 100BASE-TX (IEEE802.3 and ANSI×3.263 standards)
Protocol		IPv4, IPv6, TCP, UDP, IGMP, MLD, DHCP, NTP, DNS, etc.
Encryption method		TLS1.2
Weight		340g (approx.) (0.75 lbs)
Unit color		Middle gray(N6.4 Munsell Approximation)

■WIRING DIAGRAM
【Multi building consisting of standard system】
Tenant section/Main section

R1 R2 R1 R2 R1 R2

PEφ0.8-1P NP

DP (Distribution Point)

GT-MCX

R1
R2

LAN

100BASE-TX CAT5e/6 *1

Switching hub

50m(165')
PEφ0.8-1P

100m(330')

Switching hub requirement (third party product)
Packet delivery: Multicast
Transmission rate: 100 Mbps or more

GT-BC

NP 5m(16')
PEφ0.8-1P

R1 R2
+   −

DC24V

5m(16')
PEφ0.8-2C

+
−

PS

5m(16')
PEφ0.8-2C

PS

GT-VBC

IN(1)
A1
A2

NP

OUT
A1
A2

50m(165')
PEφ0.8-1P

IN(5)
A1
A2

OUT(1)
B1
B2

NP

IN
B1
B2

50m(165')
PEφ0.8-1P

OUT(5)
B1
B2

POWER
OFF ■ ON

SW2
1 2 3 4 5 6 7 8
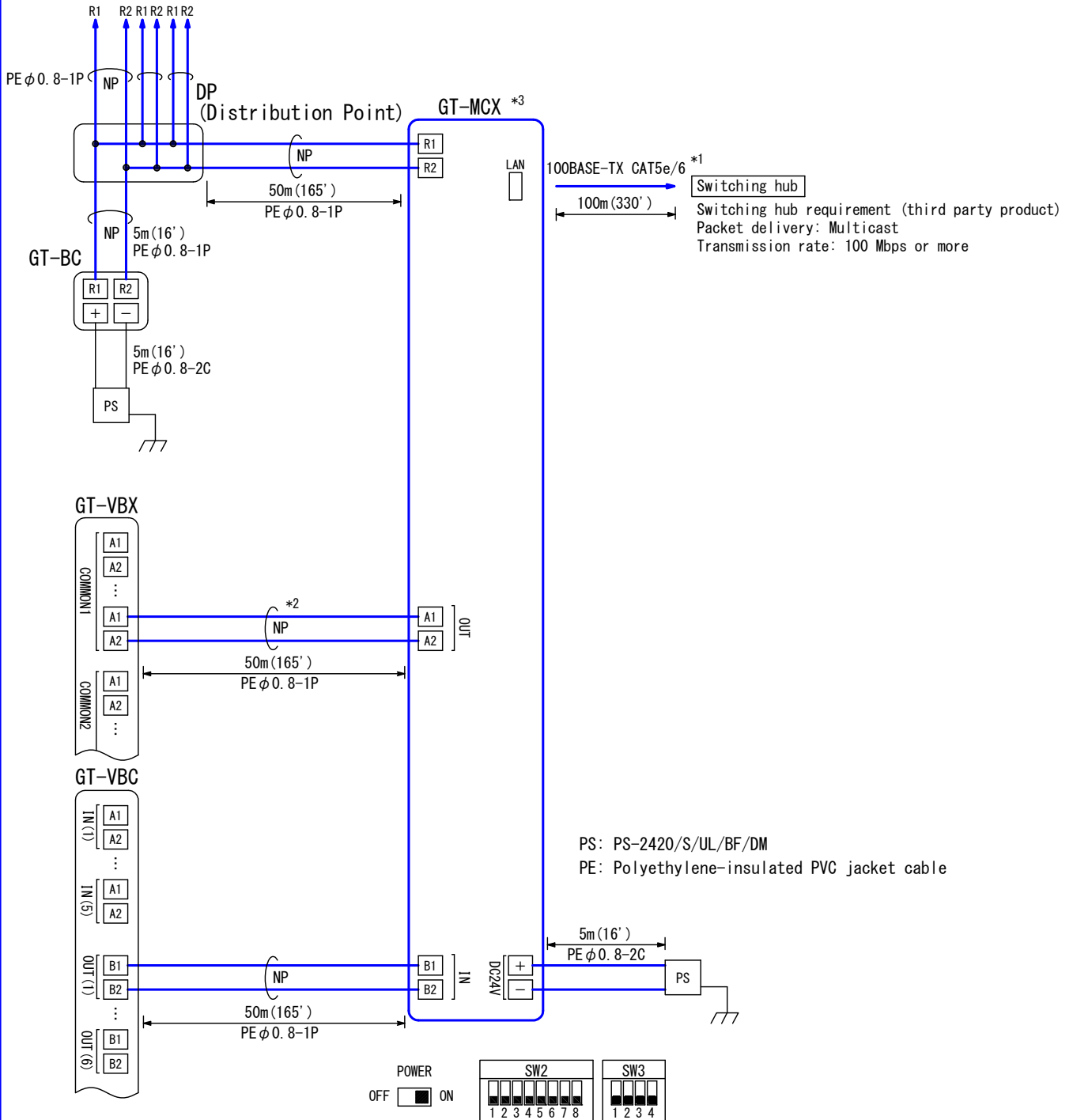
SW3
1 2 3 4

PS: PS-2420/S/UL/BF/DM
PE: Polyethylene-insulated PVC jacket cable

*1: Do not route a CAT5e/6 cable outdoors from a multi-building control unit directly. When routing a CAT5e/6 cable outdoors from a switching hub, use a model that supports outdoor wiring.

【Multi building consisting of expanded system】
Tenant section/Main section

R1 R2 R1 R2 R1 R2

PEφ0.8-1P NP

DP
(Distribution Point)

GT-MCX *3

R1
R2

LAN

100BASE-TX CAT5e/6 *1

50m(165')
PEφ0.8-1P

NP

100m(330')

Switching hub

Switching hub requirement (third party product)
Packet delivery: Multicast
Transmission rate: 100 Mbps or more

GT-BC

NP 5m(16')
PEφ0.8-1P

R1 R2
+   −

5m(16')
PEφ0.8-2C

PS

GT-VBX

A1
A2
:
A1
A2

COMMON1

*2
NP

A1
A2

OUT

50m(165')
PEφ0.8-1P

A1
A2
:

COMMON2

GT-VBC

A1
A2
:
A1
A2

IN(1)

IN(5)

PS: PS-2420/S/UL/BF/DM
PE: Polyethylene-insulated PVC jacket cable

B1
B2
:
B1
B2

OUT(1)

OUT(6)

NP

B1
B2

IN

DC24V

+
−

5m(16')
PEφ0.8-2C

PS

50m(165')
PEφ0.8-1P

POWER
OFF   ON

SW2
1 2 3 4 5 6 7 8

SW3
1 2 3 4

*1: Do not route a CAT5e/6 cable outdoors from a multi-building control unit directly. When routing a CAT5e/6 cable outdoors
    from a switching hub, use a model that supports outdoor wiring.
*2: GT-MCX must be connected to the common trunk line 1.
*3: One GT-MCX is needed per section.

DESCRIPTION	FIG. NAME		UNIT	DATE
MULTI-BUILDING CONTROL UNIT	WIRING DIAGRAM		mm	31 May, 2017
MODEL NO.	FIG. NO.	PAGE	REVISION	AIPHONE
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■RESTRICTIONS

- A main section cannot include residential/tenant stations.
- Only all-in-one type entrance stations can be used in a main section. Modular type entrance stations cannot be used.
- Each pair of wires should be in a separately jacketed cable (audio, video, and power wiring).
- Mounting location shall be accessible or servicing (never in such a place as attic, etc.)
- A computer is required to make system settings.
- ID1 is unavailable for the entrance station and the guard station. (ID1 of each station is used for GT-MCX in a multi building system.)

■FUNCTIONS

- Control both data signals and audio signals for all communications between the main sections' stations and the tenant sections' stations.
- All sections can be configured via IP network connection.

■SETTING

- Section ID setting (Tenant sections #1 to #24, Main sections #25 to #32············SW2-2〜6
- Reset the passcode (OFF/ON)···SW2-8
- DHCP setting (OFF/ON)···SW3-1
- Setting initialization (OFF/ON)···SW3-2

DESCRIPTION	FIG. NAME		UNIT	DATE	
MULTI-BUILDING CONTROL UNIT	RESTR./FCN./SETTING		mm	31 May, 2017	
MODEL NO.	FIG. NO.	PAGE	REVISION	**AIPHONE**	
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