

HCS-8300ME/FS Congress Extension Main Unit



The maximum capacity of HCS-8300M series CMU is 60 contribution units. If extra contribution units are needed, HCS-8300ME/FS or HCS-8300ME Congress Extension Main Unit(s) must be added. The outlet connectors of both are identical. Each HCS-8300ME/FS or HCS-8300ME has two EXTENSION IN interfaces used to connect HCS-8300M series CMU or a preceding Congress Extension Main Unit, and an EXTENSION OUT interface for the next Congress Extension Main Unit.

Functions

- Compliant to IEC 60914 and CE
- Cooperates with HCS-8300M or HCS-4100M/50 series Congress Main Unit for system capacity extension
- Based on TAIDEN company originated MCA-STREAM digital audio processing and transmitting technology
- Sync power on/off with the Congress Main Unit
- In cooperation with the Congress Main Unit and a central control system, central control of the whole system power can be realized

Interconnections

- 4 × (6P-DIN) trunk-line cable outlet
- 2 × RJ45 standard socket (input) for connection with the Congress Main Unit or with a preceding Congress Extension Main Unit
- 1 × RJ45 standard socket (output) for connection with the next Congress Extension Main Unit
- Equipped with two duplex SC single-mode optical fiber interfaces

Technical Specifications

Electrical

Power supply.....AC 100 V-120 V 60 Hz or AC 220 V-240 V 50 Hz
Power consumption.....450 W

Mechanical

Mounting.....Tabletop or mounted in a 19" rack
Dimensions (h × w × d)
For table use, with feet.....99 × 430 × 325 mm
For 19" rack use, with brackets.....89 × 478 × 350 mm
Weight.....10.0 kg
Color.....White (PANTONE 420 C)

Ordering Information

HCS-8300ME/FS.....Fully Digital Congress System Extension Main Unit (with 2 single-mode optical fiber interfaces, 4 congress unit outlets)

HCS-8300ME Congress Extension Main Unit



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Functions

- Based on TAIDEN company originated MCA-STREAM digital audio processing and transmitting technology
- Compliant to IEC 60914 and CE
- Cooperates with HCS-8300M or HCS-4100M/50 series Congress Main Unit for system capacity extension
- Sync power on/off with the Congress Main Unit
- In cooperation with the Congress Main Unit and a central control system, central control of the whole system power can be realized

Interconnections

- 4 × 6P-DIN trunk-line cable outlet
- 2 × RJ45 standard socket (input) for connection with the Congress Main Unit or with a preceding Congress Extension Main Unit
- 1 × RJ45 standard socket (output) for connection with the next Congress Extension Main Unit

Technical Specifications

Electrical

Power supply.....AC 100 V-120 V 60 Hz or AC 220 V-240 V 50 Hz
 Power consumption.....450 W

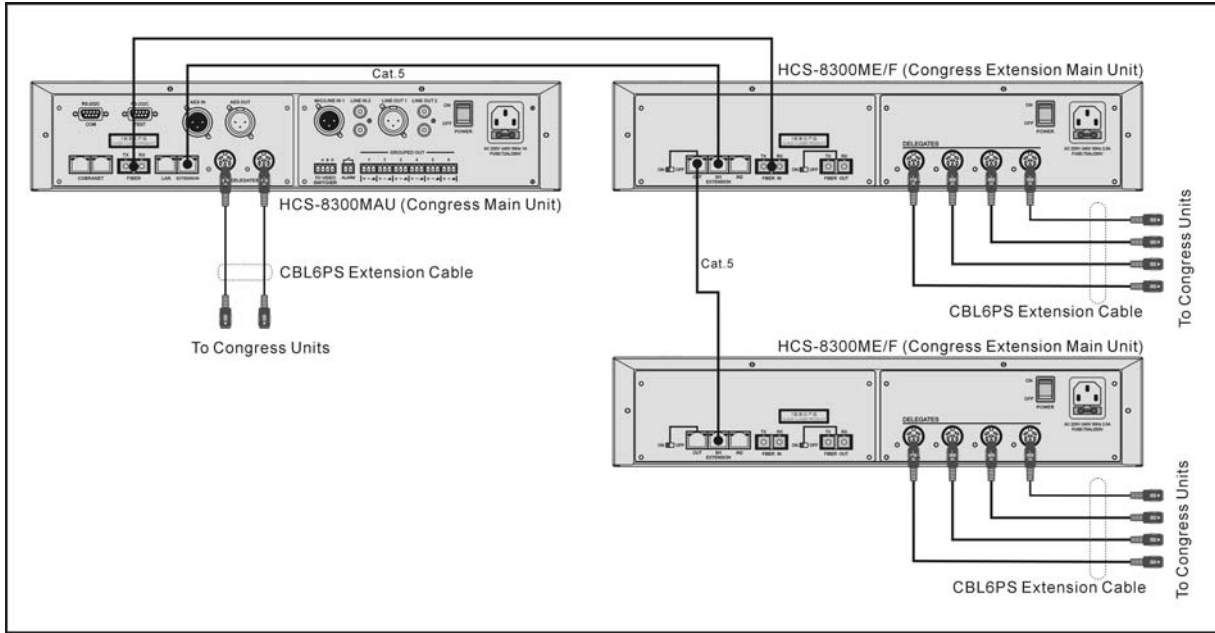
Mechanical

Mounting.....Tabletop or mounted in a 19" rack
 Dimensions (h × w × d)
 For table use, with feet.....99 × 430 × 325 mm
 For 19" rack use, with brackets.....89 × 478 × 350 mm
 Weight.....10.0 kg
 Color.....White (PANTONE 420 C)

Ordering Information

HCS-8300ME...Fully Digital Congress System Extension Main Unit
 (4 congress unit outlets)

System Connection



Low power consumption design

All congress units of HCS-8300 and HCS-4100/50 series (except HCS-8338 series and HCS-8348 series) are supplied by the main unit's 6P-DIN interface. Since the power capacity of the 6P-DIN interface is limited, it must be ensured during installation that the added up values of a) the total power consumption of all congress units connected in each path and b) the power loss in connection cables do in no case exceed the maximum possible value delivered by each 6P-DIN interface. Otherwise the system will not work properly or automatic protection will be triggered. Refer to the table 1 for the max. connection number of congress units.

Note:

- The total added up cable length from the main unit to the furthest congress unit shall not exceed 250 m.
- Any connection cable length should be less than 80 meters (incl. the cable between the main unit and the next congress unit and the cable between any two sequential congress units), otherwise it will affect the signal quality. In case the length exceeds 80 m, cable splitter HCS-4352T/50 is needed.
- The extension cable between the main unit and the first congress unit is always carrying the maximum current, induced by the totality of the congress units connected to the dedicated socket. Due to Ohm's law the available supply voltage at the opposite end of this cable is lower than on the socket. This voltage drop is dependent on the cable length and the current. The number of overall connectable congress units to the main unit is therefore a function of the cable length and vice versa. However, when the cable is connected between the last two congress units, the influence is insignificant.

Table 1 Quick lookup table for the max. number of connected congress units

Type	Type No.	The extension cable length between the CMU(EMU) and the first Congress Unit connected to the socket																			
		20 m	40 m	60 m	80 m	80 m + HCS-4352/50 +80 m	80 m + HCS-4352/50 + 80 m + HCS-4352/50 + 80 m														
Equipped with Electronic Nameplate, speaker and microphone	HCS-48U7/U8/U9 /U10+HCS-1080	11	10	9	8	5	-														
Equipped with 256×64 LCD, speaker and microphone	HCS-4385U/50	14	12	11	9	6	4														
Equipped with 256×32 LCD, speaker and microphone	HCS-4886/50 HCS-4887/50 HCS-4380/50 HCS-4382/50 HCS-48U7 HCS-48U8 HCS-48U9	16	13	12	11	8	5														
	Equipped with OLED, speaker and microphone							HCS-48U10 HCS-4338N/50													
Equipped with speaker and microphone, without 256×32 LCD	HCS-4888/50 HCS-4370/50 HCS-4371/50 HCS-4360/50 HCS-4361/50 HCS-4362/50 HCS-4363/50 HCS-4340/50 HCS-4330/50 HCS-4332/50 HCS-4326/50 HCS-4841/50	22	19	17	15	9	6														
	Equipped with 256×32 LCD, without speaker nor microphone							HCS-4368/50	30	26	24	22	15	10							
	Equipped with microphone, without 256×32 LCD nor speaker							HCS-8313 HCS-8314 HCS-8315 HCS-4325/50 HCS-4326/50 HCS-4841/50	30	27	24	22	17	12							
								Without 256×32 LCD, speaker nor microphone							HCS-4368SDT/50 HCS-4368ADT/50	30	29	26	24	19	14

HCS-8300MES Congress Extension Unit



Functions

- Based on TAIDEN company originated MCA-STREAM digital audio processing and transmitting technology
- Compliant to IEC 60914 and CE
- Cooperates with HCS-8300M or HCS-4100M/50 series Congress Main Unit for system capacity extension
- Sync power on/off with the Congress Main Unit
- In cooperation with the Congress Main Unit and a central control system, central control of the whole system power can be realized

Interconnections

- 3 × 6P-DIN trunk-line cable outlet, connection cable length should be less than 80 meters
- 1 × 6P-DIN socket (input) for connection with the Congress Main Unit or with a preceding Congress Extension Main Unit, connection cable length should be less than 80 meters
- 1 × 6P-DIN socket (output) for connection with the next HCS-8300MES, connection cable length should be less than 80 meters

Technical Specifications

Electrical

Power supply.....AC 100 V - 240 V, 50 Hz / 60 Hz
 Power consumption.....150 W

Mechanical

Dimensions (h × w × d).....42 × 296 × 133 mm
 Weight.....1.5 kg
 Color.....Black (PANTONE 419 C)

Ordering Information

HCS-8300MES.....Fully Digital Congress System Extension Unit
 (3 congress unit outlets)

Table 2 Quick lookup table of HCS-8300MES load capability

Type	Type No.	The extension cable length between the HCS-8300MES and the first Congress Unit connected to the socket			
		20 m	40 m	60 m	80 m
Equipped with Electronic Nameplate, speaker and microphone	HCS-48U7/U8/U9/U10 +HCS-1080	8	7	6	5
Equipped with 256×64 LCD, speaker and microphone	HCS-4385U/50	10	9	8	7
Equipped with 256×32 LCD, speaker and microphone	HCS-4886/50 HCS-4887/50 HCS-4380/50 HCS-4382/50 HCS-48U7 HCS-48U8 HCS-48U9	12	11	10	9
Equipped with OLED, speaker and microphone	HCS-48U10 HCS-4338N/50				
Equipped with speaker and microphone, without 256×32 LCD	HCS-4888/50 HCS-4370/50 HCS-4371/50 HCS-4360/50 HCS-4361/50 HCS-4362/50 HCS-4363/50 HCS-4340/50 HCS-4330/50 HCS-4332/50 HCS-4326/50 HCS-4841/50	18	16	14	12
Equipped with 256×32 LCD, without speaker nor microphone	HCS-4368/50				
Equipped with microphone, without 256×32 LCD nor speaker	HCS-8313 HCS-8314 HCS-8315 HCS-4325/50 HCS-4326/50 HCS-4841/50	24	22	20	18
Without 256×32 LCD, speaker nor microphone	HCS-4368SDT/50 HCS-4368ADT/50				