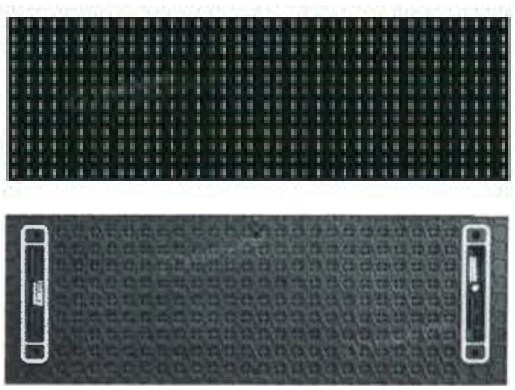
CHIPSHOW Outdoor LED Display

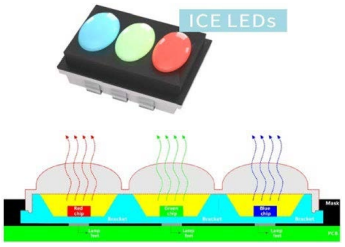
深圳市齐普光电子股份有限公司
Shenzhen Chip Optech Co., Ltd.

INTRODUCTION TABLE FOR VMS P 20, SMD LED (ICE LED), 7680MM X 1280 MM

CS/VA-ICE/30-768/128

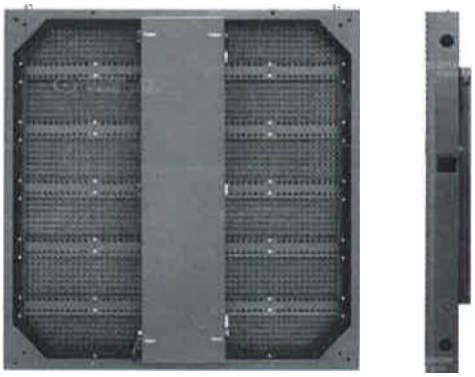
1. Module Parameters



Pixel Pitch	20mm (P20)
Pixel Composition	1R1G1B
Pixel LED	SMD LED (ICE LED) 
Size	480mm*160mm
Resolution	24dots x 8dots
Module Type	Ventilated
Control Method	Static
Application	Outdoor (IP66)

2. Cabinet Parameters

Display size	960mm x 1280mm
Cabinet Resolution	48dots x 64dots
Module Quantity per Cabinet	2pcs x 8pcs
Cabinet Type	Outdoor Use
Material	2mm-Thick Aluminum Metal
Weight	<40kg/m2
Protection Level	IP66(front)/IP66(rear)
Maintenance Type	Front & Rear
Outer Frame	100mm by Aluminum, Powder Coated



Installation Accessories	Complete

5F, Tower C, Baoshi Technological Park, Baoshi Road,
Shiyan Street, Bao'an District, Shenzhen City, China 518108
TEL: 86-755-83419012 FAX: 86-755-82975893
E-mail: manager@chipshow.com
WEB: www.chipshow.com

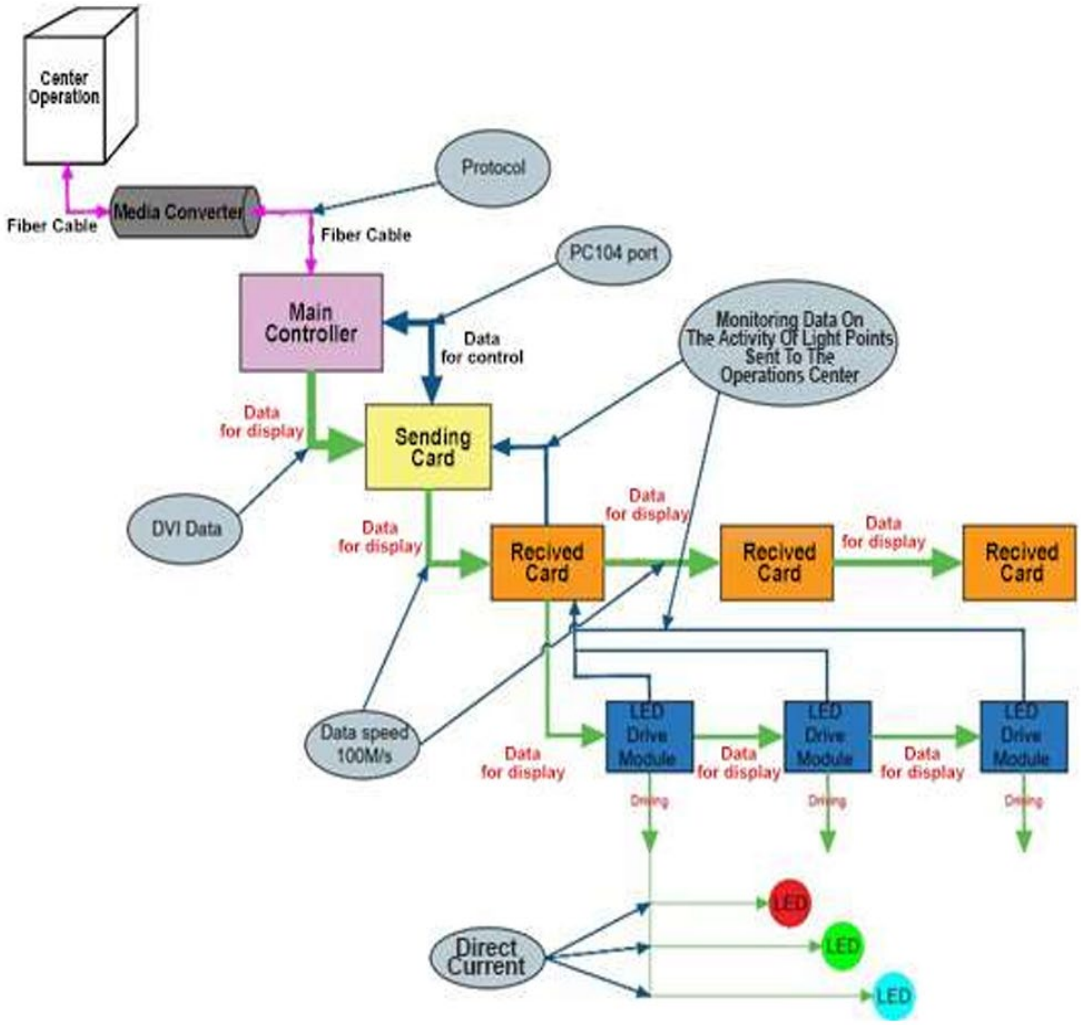
Premium Innovative

3. VMS Board Parameters			
Pixel Density	2500 dots/m2	**Frame Frequency**	60Hz
Contrast Ratio	Comply with EN12966 Class R3	**Display Color**	4,294,967,296 colors
Viewing Distance	10-250m	**Max. Grey Grade**	13bits
Input Voltage	AC110V-230V/50Hz ±1Hz	**Operating Temperature**	-25°C ~ +70°C
Maximum Power Consumption	1570W	**Working Humidity**	0%~99%
Average Power Consumption	523W	**Communication Distance**	CAT6 Cable< 100m FO Cable> 100m
Power Supply Mode	Redundance (N+1 Backup)	**Communication Protocol**	TCP/IP, NTCIP
Viewing Angle	Comply with EN12966 Class B6, when adopting ICE LEDs: H: ±30°, V: -10°	**Connection Ports**	RS232/RS485, Ethernet (FO, RJ45)
Brightness	Comply with EN12966 Class L3/L3* - Red: ≥ 3100 cd/m^2 - Green: ≥ 3720 cd/m^2 - Blue: ≥ 1240cd/m^2 - Yellow: ≥ 7440 cd/m^2 - White: ≥ 12400 cd/m^2	**Test Mode**	Power failure detection, Sensor error, Faulty pixel, Open door, Connection error, VMS temperature, etc.
Color	Comply with EN12966 Class C2	**Lifespan**	≥100,000 hours
Refresh Rate	960Hz	**System Operation**	CHIPSHOW, Windows 10, Windows 11, Support English,Vietnamese
aBrightness Adjustment	0-100 levels automatic / manual		
LED Part Size	7,68m(W)*1,28m(H)	7,68m(W)*l,28m(H) = 9,8304m^2	
Total Size	7,88m(W)*1,48m(H)	7,88m(W)*1,48m(H) = 11,6624m^2	
Number of Cabinets	8 (W)*l (H) = 8		
Number of Pixels	384dots x 64dots	P20	

4. Data Transmission Mode Model for Electronic Board, Error Detection, and Transmission of Detected Errors

The data transmission mode model for the electronic board, error detection, and transmission of detected errors to the operator is described as in the figure below:

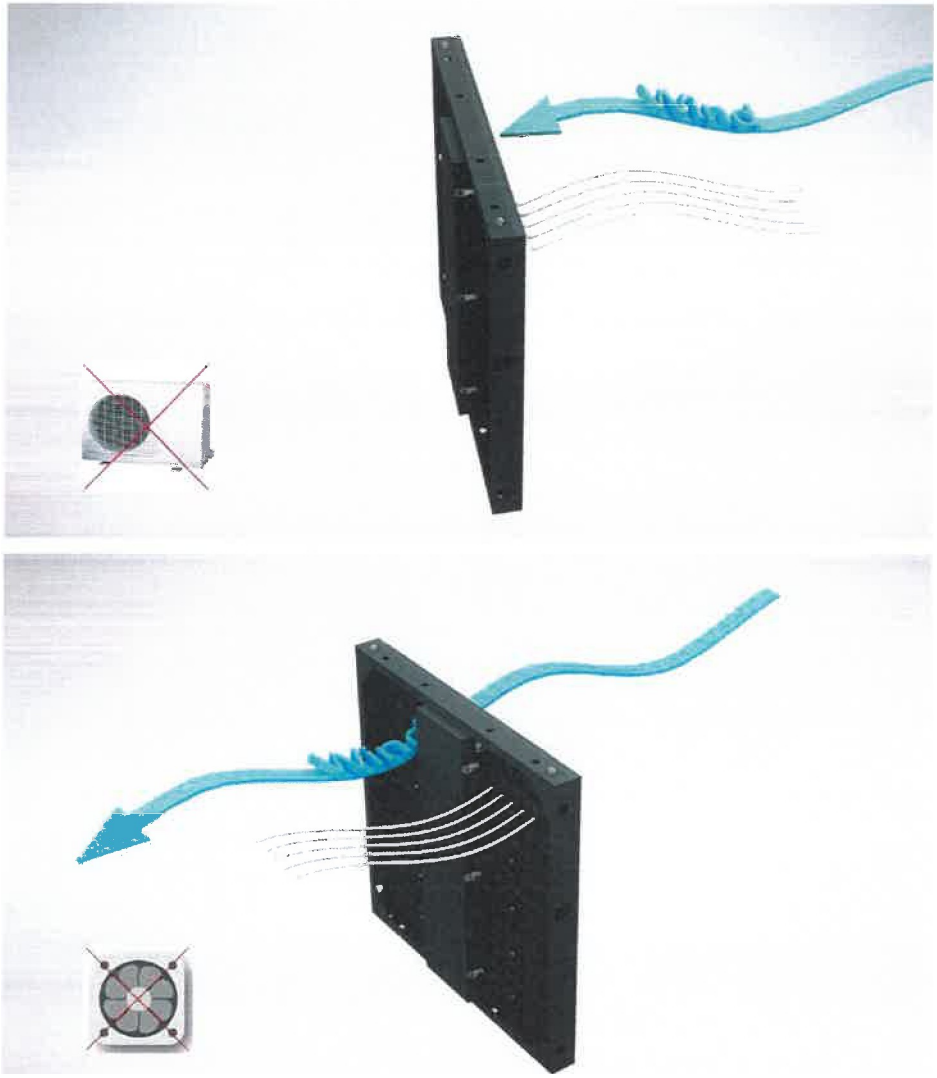
- The data transmission path for the electronic board follows the arrow direction from the control center to the LED drive modules.
- The data transmission path following the arrow direction from the LED drive modules back to the control center is the path for reporting the status of the LEDs.



Data transmission mode model for the VMS board, including error detection and transmission of detected errors to the operator.

5. Ventilation Model for VMS Board:

The ventilation model for the VMS board is described as in the figure below. With the VMS board designed according to this ventilation model, the impact of wind on the electronic board will be reduced by 2 wind levels.



Operating Principle of Ventilation when Using Ventilated LED Modules.

6. Packaging Image			
Carton Case		Flight Case (if required)