

Token Display

Type 1: P10 based token display system



Display Spec

Scanning cycle	1/4 duty scan drive
Brightness	3500nits to 4500nits
Power	20W
Size	32x16 mm
Input voltage(max)	DC 5V
Curent(max)	4Amps
Others feature	Constant Voltage Drive
	IP65 Waterproof
	1W Pixel Configuration
	High Viewing Angle
	High Contrast Ratio with a perfect louver/cover
Speaker	Audix-4inch, 4ohm/5W square type

Display driver card spec

Controller	ATMega324A-AU SMD
Protocol	HUB-12
Connector type	FRC16 straight
Power input	DC:12V
Communciation interface	RS422
Other feature	On board clock to show time
	On board audio volume control for token voice
	On board audio power amplifier for token voice

Token controller

Controller	ATMega324A-AU SMD
Display	2*16 LCD with yellow-green backlight
Comm.Interface	RS422
Other feature	Lanugage control
	Next, last and repeat token call option

	Sequence token call option
	Last token recall and view option
	Token reset option
Box size	16x10x5 cm
Finish	Powder coated green color
Material	0.8mm sheet metal
	Option to mount on wall

Type 2: Seven segment based token display



Display spec

Face Length	122.0mm
Face Width	90.0mm
Height	15.0mm
Pin spacing	5.1mm
Row spacing	107.0mm
No.of pins	10
Color	RED
Forward Voltage - Typical @ 10mA (V_F)	1.90 V
Forward Voltage - Maximum @ 20 mA (V_{FM})	2.10 V
Reverse Current @ $V_R = 5V$ (I_R)	100 μ A
Peak Emission Wavelength (λ_P)	660 nm
Emission Wavelength Half Width ($\Delta\lambda$)	20 nm
Luminous Intensity per Segment (I_V)	6000 μ cd
ABSOLUTE MAXIMUM RATINGS AT 25°C	
Reverse Voltage (V_R)	5V
Forward Current (avg) (I_F)	20mA
Peak Forward Current ($T < 1ms$) (I_{FS})	80mA
Operating Temperature Range	10°C to + 85°C

Driver card spec

Controller	ATMega16A-PU
Connector type	RJ12-6P6C
Power input	DC:12V/2A
Communication interface	RS422

Other feature	ULN2803 based segment drive
	On board audio volume control for token voice
	On board audio power amplifier for token voice
Speaker	Audix-4inch, 4ohm/5W square type

Cabinet spec

Material	sheet metal
Finish	Powder coated black in color
Thickness	0.8mm