HIGHNESS™
One of a kind

TRAINS & METROS TRANSPORTATION

DIGITAL IMAGING SOLUTIONS

HighnessMicro has developed products suitable for harsh conditions such as Displays and Controllers for heavy vibration, extremely harsh operating temperature and rainy conditions etc. Some of the retrofit products has helped Railway systems to reduce overall revamp costs and scale up to new display products within the existing design. Over several years, our flagship products has been Displays for Automatic Fare Collection (AFC), Driver Display Units (DDU), Passenger Information Systems (PIS), Passenger Announcement & Passenger Information Systems (PAPIS), Route Finder, Locomotive Navigation System, Synchronization System for Driverless Trains etc.

PASSENGER INFORMATION SYSTEM (PIS) DISPLAYS ✴
DUAL SIDED PANEL DISPLAYS ✴
DUAL SIDED STRETCH DISPLAYS ✴
DYNAMIC ROUTE MAP DISPLAYS (DRMD) ✴

✴ DISPLAY FOR TICKET VENDING
✴ DRIVER DISPLAY UNIT (DDU) FOR LOCO CABIN
✴ STATION & OUTDOOR DISPLAYS / PIDS
✴ DISPLAYS CONTROLLERS

SPEED : 130 kmph
NEXT STATION : SURAT

RAILWAY
WELCOME YOU!
HELP THE
RAILWAYS FOR
SAFE JOURNEY

MUMBAI → DELHI   SPEED : 130 kmph
NEXT HALTING
STATION
SURAT
80 kms AWAY.

DISPLAYS FOR PA & PIS

WITH DATA STREAMING ON ETHERNET OR Wi-Fi

RUGGED | HD | FULL HD | HIGH BRIGHTNESS | MULTI TOUCH | Wi-Fi | LAN | OUT DOOR

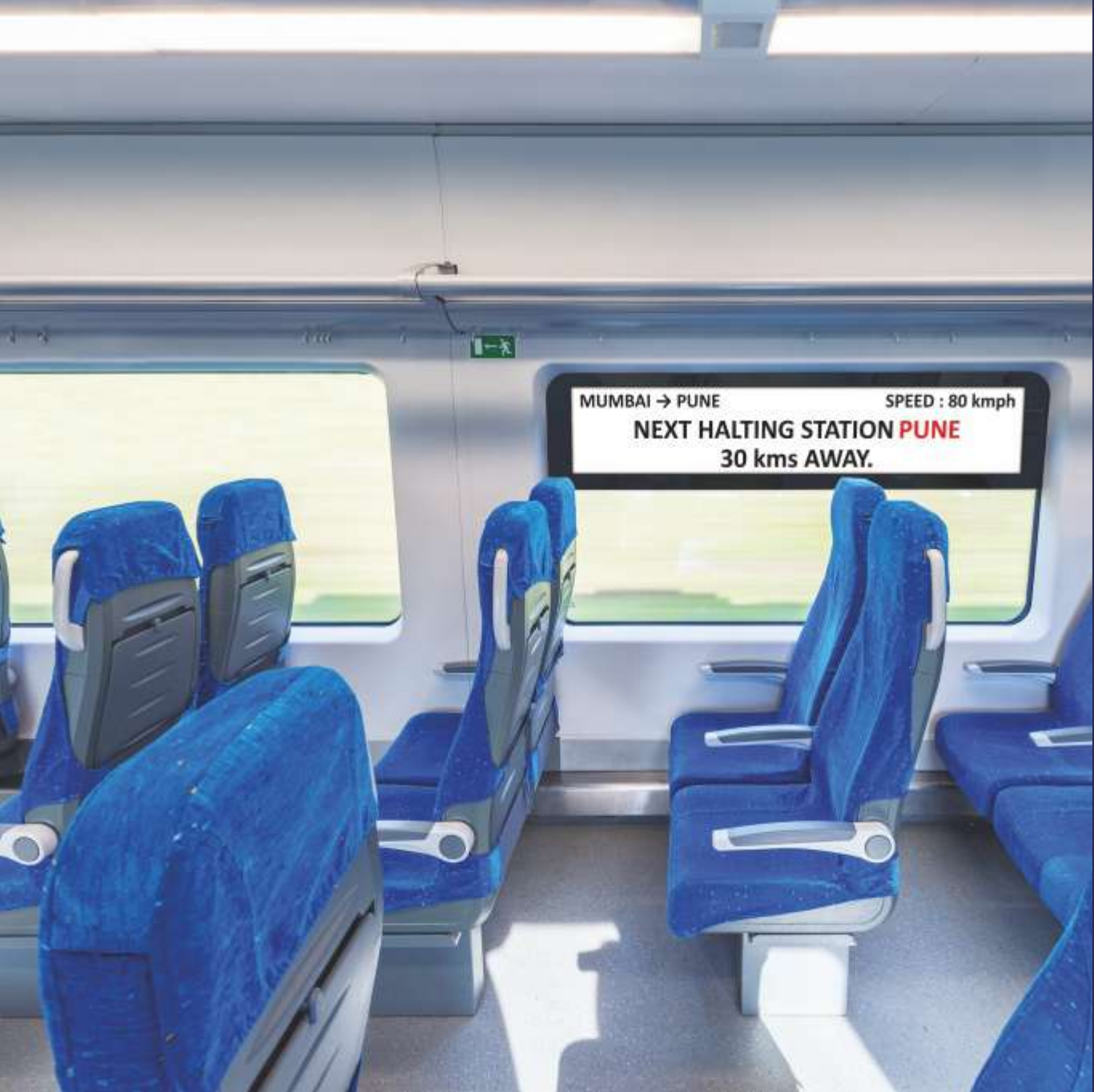| Size	18.5"	18.5"	21.5"	32"
Resolution	1366 x 768	1920 x 1080		
Brightness	500 ~ 900			
Operating Temperature	-30°C to +80°C			
I/O	LVDS			
Surface (Optional)	Vandal Proof Cover Glass			
	Multi Touch Projected Touch Screen			
Life Time	50,000 Hrs (Standard)			
	70,000 - 1,00,000 Hrs (Ruggedized)			
Controller (Optional)	Embedded Boards (Data streaming through Ethernet and Wi-Fi)			
Input Power	110V DC			

DUAL SIDED DISPLAYS
ENCAPSULATED INSIDE GLASS

BACK-TO-BACK DUAL DISPLAY | FULL HD | HIGH BRIGHTNESS | MULTI TOUCH | Wi-Fi | LAN | OUT DOOR

Size	18.5"	21.5"
Segment	Back-to-Back Dual Display (x 2 Display)	
Resolution	1920 x 1080	
Brightness	500 ~ 900	
Operating Temperature	-30°C to +80°C	
I/O	LVDS	
Surface (Optional)	Vandal Proof Cover Glass	
	Multi Touch Projected Touch Screen	
Life Time	50,000 Hrs (Standard)	
	70,000 - 1,00,000 Hrs (Ruggedized)	
Controller (Optional)	Embedded Boards (Data streaming through Ethernet and Wi-Fi)	
Input Power	110V DC	

DUAL SIDED STRETCHED DISPLAYS

ENCAPSULATED IN WINDOWS FOR INDOOR & OUTDOOR USE

BACK-TO-BACK DUAL DISPLAY | FULL HD | HIGH BRIGHTNESS | MULTI TOUCH | Wi-Fi | LAN | OUT DOOR

Size	24"	28"	36.6"
Segment	Back-to-Back Dual Display (x 2 Display)		
Resolution	1920 x 360		1920 x 290
Brightness	500 ~ 900		
Operating Temperature	-30°C to +80°C		
I/O	LVDS		
Surface (Optional)	Vandal Proof Cover Glass		
	Multi Touch Projected Touch Screen		
Life Time	50,000 Hrs (Standard)		
	70,000 - 1,00,000 Hrs (Ruggedized)		
Controller (Optional)	Embedded Boards (Data streaming through Ethernet and Wi-Fi)		
Input Power	110V DC		

STRETCHED DISPLAYS

FOR DYNAMIC ROUTE MAP & PASSENGER INFORMATION SYSTEM

Wi-Fi

RUGGED | HIGH BRIGHTNESS | FULL HD | OUT DOOR | LAN

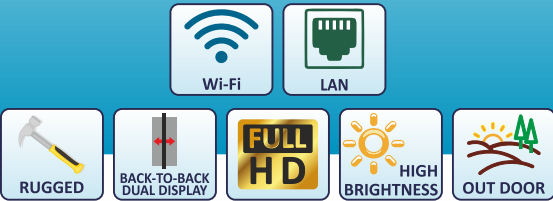| Size	24"	28"	29"	36.6"	47.95"	48"
Segment	Stretch Display		Stretch Display			
Resolution	1920 x 360		1920 x 540	1920 x 290	1920 x 238	1920 x 320
Brightness	500 ~ 900		500 ~ 900			
Operating Temperature	-30°C to +80°C		-30°C to +80°C			
I/O	LVDS		LVDS			
Surface	Vandal Proof Cover Glass		Vandal Proof Cover Glass			
Life Time	50,000 Hrs (Standard)		50,000 Hrs (Standard)			
	70,000 - 1,00,000 Hrs (Ruggedized)		70,000 - 1,00,000 Hrs (Ruggedized)			
Controller (Optional)	Embedded Boards (Data streaming through Ethernet and Wi-Fi)		Embedded Boards (Data streaming through Ethernet and Wi-Fi)			
Input Power	110V DC		110V DC			

INDUSTRIAL GRADE DISPLAYS
FOR TICKETING & INFORMATION KIOSK

Automatic Ticket Vending Machine

RUGGED | HIGH BRIGHTNESS | FULL HD | MULTI TOUCH | OUT DOOR

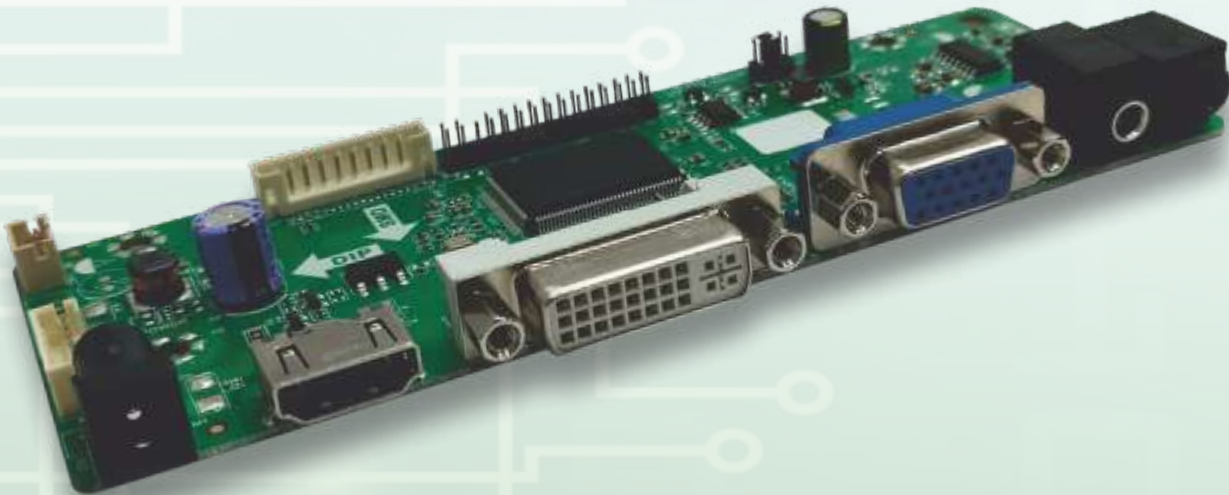| Size	17"	18.5"	21.5"	24"
Segment	Open Frame Display		Open Frame Display	
Resolution	1280 x 1024		1920 x 1080	
Brightness	500 ~ 900		500 ~ 900	
Operating Temperature	-30°C to +80°C		-30°C to +80°C	
I/O	LVDS		LVDS	
Surface (Optional)	Vandal Proof Cover Glass		Vandal Proof Cover Glass	
	Multi Touch Projected Touch Screen		Multi Touch Projected Touch Screen	
Life Time	50,000 Hrs (Standard)		50,000 Hrs (Standard)	
	70,000 - 1,00,000 Hrs (Ruggedized)		70,000 - 1,00,000 Hrs (Ruggedized)	
Input Port	HDMI, DVI, VGA		HDMI, DVI, VGA	
Controller (Optional)	Embedded Boards		Embedded Boards	
	(Data streaming through Ethernet and Wi-Fi)		(Data streaming through Ethernet and Wi-Fi)	

DRIVER DISPLAY UNIT (DDU)

RUGGEDIZED DISPLAYS
FOR PROPULSION SYSTEM OR DRIVER DISPLAY UNIT (DDU)

RUGGED | HIGH BRIGHTNESS | MULTI TOUCH | OUT DOOR

Size	7"	10.4"	12.1"	4" Circular Display
Segment	Industrial Grade Panel Mount Display	Industrial Grade Panel Mount Display		
Resolution	1024 x 600	1024 x 768		720 x 720
Brightness	500 ~ 900	500 ~ 900		
Operating Temperature	-30°C to +80°C	-30°C to +80°C		
I/O	LVDS	LVDS		RGB
Surface (Optional)	Vandal Proof Cover Glass	Vandal Proof Cover Glass		
	Multi Touch Projected Touch Screen	Multi Touch Projected Touch Screen		–
Life Time	50,000 Hrs (Standard)	50,000 Hrs (Standard)		
	70,000 - 1,00,000 Hrs (Ruggedized)	70,000 - 1,00,000 Hrs (Ruggedized)		

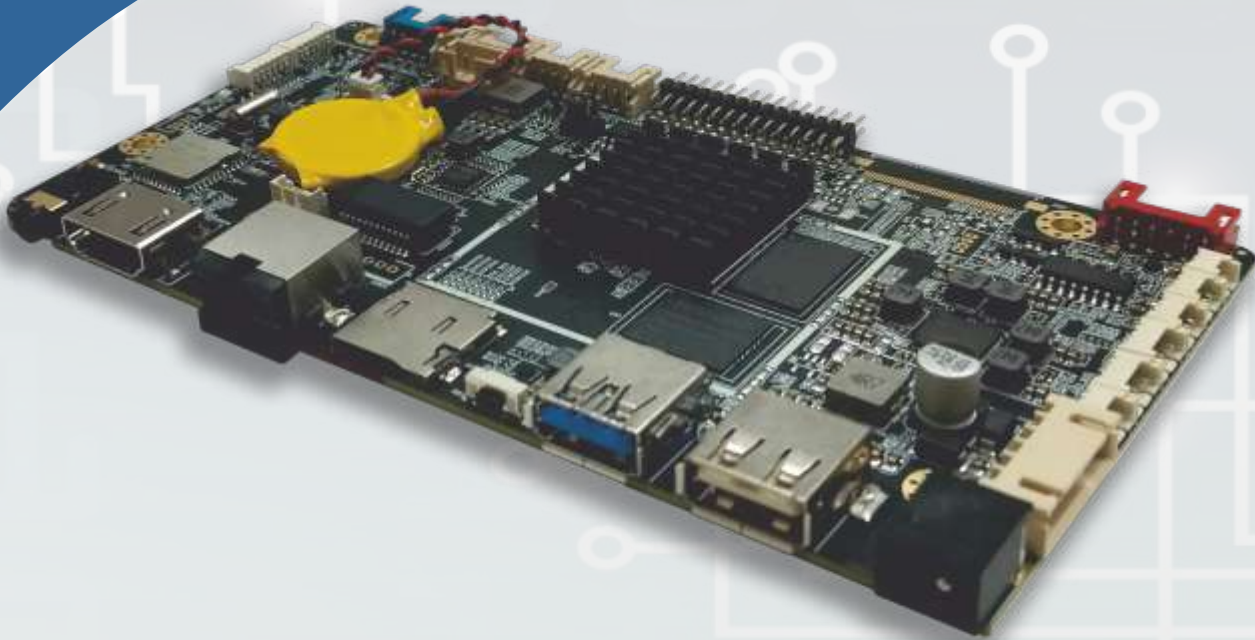# LARGE SIZED HIGH-BRIGHTNESS DISPLAYS
FOR PLATFORM CONCOURSE

Wi-Fi   LAN

RUGGED | BACK-TO-BACK DUAL DISPLAY | FULL HD | HIGH BRIGHTNESS | OUT DOOR

Size	32"	43"	55"
Segment	Industrial Grade Display	Industrial Grade Display	
Resolution	1920 x 1080	1920 x 1080	
Brightness	500 ~ 900	500 ~ 900	
Operating Temperature	-30°C to +80°C	-30°C to +80°C	
I/O	LVDS	LVDS	
Surface	Vandal Proof Cover Glass	Vandal Proof Cover Glass	
Life Time	50,000 Hrs (Standard)	50,000 Hrs (Standard)	
	70,000 - 1,00,000 Hrs (Ruggedized)	70,000 - 1,00,000 Hrs (Ruggedized)	
Controller (Optional)	Embedded Boards (Data streaming through Ethernet and Wi-Fi)	Embedded Boards (Data streaming through Ethernet and Wi-Fi)	

INDUSTRIAL GRADE EMBEDDED CONTROLLERS

FOR DATA STREAMING ON ETHERNET OR Wi-Fi

Supported Resolution	PC-RGB	Up to 1920 x 1080 @60Hz
	HDMI	
	DVI	
Output Interface		LVDS, eDP, V by One
Operating Temperature		-20 ~ 70℃
Power Input		12V DC

CPU	Rock Chip RK3566UP to1.8GHz
RAM	2GB (Expandable to 4)
ROM	16GB (Expandable to 32)
Operating System	Linux / Android
Network	100M Ethernet, Wi-Fi/BT4.1, Wireless
I/O Port	3 x Serial - TTL
	1 x Serial - Rs232
	2 x USB
	1 x GPIO
Ethernet	1 x 10M/100M
Operating Temperature	-20 ~ 70℃
Power Input	12V DC