

# Intelligent Cab Monitor 10.4” Monitor With Touchscreen

**eyetrain.**

eyeTrain is designed to rail group standards, and incorporates the very latest in video, storage and communications technology. The eyeTrain range offers digital (IP) technology matched to the harsh environment of rolling stock applications, providing the highest performance and resilience on the market.



A level of runtime stability and resilience not normally associated with high technology systems

## Specifications

### General

Type	10.4” Monitor with Touchscreen for Rolling Stock Applications
Part Number	ICM-GW-114
Form Factor	Aluminium Alloy Housing with Resistive Type Touchscreen Display
Dimensions	264 mm (W) x 219 mm (H) x 97 mm (D)
Weight	2.48 kg



### Specifications

#### Specification

Resolution	800 x 600 (SVGA), Colour.
Brightness	1600 Cd/m2, with automatic dimming
Contrast Ratio	400:1
Viewing Angle	+45° - 65° (H), +65° - 65° (V)
Backlight	LED
Video Input	Via Ethernet
Touchscreen Type	Resistive

#### Environmental

Temperature Range	-25°C to +55°C (Operational T1)
Ingress Protection	IP 65

#### Electrical

Power Consumption	19 W (Max)
Power Supply	PoE IEEE802.3at PoE Class 2

#### Connectivity

Right Door Enabled	4 Way. Pins A and D are not connected	
	Pin	Signal
	B	Right Door Release
	C	Right Door Release Return
Left Door Enabled	4 Way. Pins A and D are not connected	
	Pin	Signal
	B	Left Door Release
	C	Left Door Release Return



### Connectivity

Digital I/O	15 Way. Pins C,F,J and M are not connected	
	<b>Pin</b>	<b>Signal</b>
	A	Bell
	B	Bell Return
	D	Low Speed
	E	Low Speed Return
	G	Coupling
	H	Coupling Return
	K	Cab Active
	L	Cab Active Return
Ethernet (PoE)	<b>Pin</b>	<b>Signal</b>
	1	TD+
	2	RX+
	3	TX+
	4	RD+
OTMR	15 Way. Pins 3, 4, 5, 11 and 12 are not connected	
	<b>Pin</b>	<b>Signal</b>
	1	CON_RS485_RXD_P
	2	CON_RS485_RXD_N
	6	RLY_NO_SPARE1
	7	RLY_NC_SPARE1
	8	CON_COM_SPARE2
	9	TRAN_RS485_TXD_P
	10	TRAN_RS485_TXD_N
	13	RLY_NO_SPARE2
	14	RLY_NC_SPARE2
	15	CON_COM_SPARE2
Diagnostics	9 Way Standard D-Type Male	
Configuration Key	15 Way Standard D-Sub Female. No end user connections	
Service Port (OTMR)	15 Way Standard D-Sub Male. No end user wiring	
Earth Bond	M6 Stud	



### Standards Compliance

Shock & Vibration	EN50155:2007 12.2.11, EN61373:2010
Ingress Protection	EN60529
Damp Heat	N/A
Dry Heat	EN50155:2007 12.2.4, EN60068-2-2
Low Temperature Storage	EN50155:2007 12.2.14, EN60068-2-1
Rapid Cycling Temperature	N/A
Insulation Resistance	EN50155:2007 12.2.9.1, EN60092-504
Voltage Withstand	EN50155:2007 12.2.9.2
Variation of Voltage Supply	N/A
Supply Over-voltage	N/A
Voltage Interruption	N/A
Earth Bonding	EN50155:2007
Reverse Polarity	N/A
Conducted Emissions	N/A
Radiated Emissions	EN50155:2007 12.2.8.2, EN50121-3-2:2016, EN61000-6-4:2007+A1:2011
Radiated Susceptibility	EN50155:2007 12.2.8.1, EN50121-3-2:2016, EN61000-4-3:2006
Conducted Susceptibility	EN50155:2007 12.2.8.1, EN50121-3-2:2016, EN61000-4-6:2014
Fast Transient Burst Sus.	EN50155:2007 12.2.7.3, EN50121-3-2:2016, EN61000-4-4:2012
Electrostatic Discharge	EN50155:2007 12.2.7.2, EN50121-3-2:2016, EN61000-4-2:2009
Surge Immunity	N/A