RUGGED DISPLAY

A4RD SERIES

12" A4RD 5712 XG

12"

Key Features

➤ IP68/NEMA 6P waterproof

➤ CE/EN compliant & ATEX capability

➤ Rugged touch screen (glass to glass technology)

➤ Optional 12/16 programmable function buttons

➤ Flexible positionning of the connectors

➤ Optional USB front connector from computer via back connector

➤ ROHS compliant

IRTS 5712XG is a 12" display from A4RD Family, a comprehensive range of 10" to 17" IP68 / NEMA 6P rugged displays.

Its specific design, graphic display and video capabilities meet the evolving and operational needs of industry cope with the toughest environments.

Direct interface with client system, versatile configuration capabilities and easy mounting make it the choice of prime system integrators as a reliable, configurable, upgradeable, best cost and lead time COTS (Commercial Off The Shelf) equipment in operational use today.

See also the other displays in the A4RD series specifically designed for your Airborne, Army or Navy applications.

PRODUCT SPECIFICATIONS

Display Module		
Size	12"	
Resolution	1024 x 768 (XGA)	
Brightness	700 Cd/m² (LED Technology)	
Pixel pitch	0.24 (H) x 0.24 (V) mm	
Viewing angles	85-85 (H) / 85-85 (V)	
Response Time	24 ms (Tr+Tf) White to Black	
Contrast Ratio	1000:1	
Display Color	16.7 M	
Dimming ratio	up to 10 Cd/m²	
Touch screen characteristics	Resistive 5-wire Glass to Glass technology	
NVIS capability	MIL-STD-3009, Class B	
Controls		
Remote control	Backlight, blackout and On/Off control in front	
Additional control capability	3 x free programmable function keys	
Option	Additional front control buttons	6 x 2 programmable function buttons
Integrated Video Controller		
Graphic controller	IRTS Embedded Video Controller	
Analog Video	1 x input VGA	
Digital Video	1 x input DVI	
Serial Ports (RS232/RS422)	1 x Serial touch controller / 1x Serial for remote control	
USB 2.0	1 x Touch controller / 1 x Remote control	
BITE	Unit Management Software	
Electrical Features		
Power supply	Power 18/36 VDC with galvanic isolation	
PLD	Power Line Disturbance optional module	
Power consumption	50 W normal environment cond. 80 W max in cold environment	
Physical Features		
Dimensions	315 x 260 x 83 mm	
Weight	7.1 Kg	
Mechanical fixing	200 x 200 - 4 x M8	
Packaging / color	Aluminum / GAM C BLACK 36X3 (Other colors available)	
Connectors Types & Position		
Connectors position	UP in standard, DOWN in option	
Connectors type	FISCHER DBPLU - sizes 103 & 105	
Options		
Composite Video	1 x Coaxial composite PAL/NTSC (BNC)	
Optical bonding	Bonding LCD Panel	
Front USB Connector	1 x Fischer serie 102 for connection transfer from CPU (key board, pointing devices, etc.)	
Connecteur Caps	Standard on front, optional on the others connectors	
Warranty		
	Two-year limited warranty (parts and labor), factory return under RMA procedure.	
	Additional 2-year coverage and customized service plans available on request.	

RANGE OF DISPLAYS

A4RD offers a wide range of displays whose 6 monitor's screen sizes and 2 brightness levels will meet your needs for your indoor and outdoor applications. (Contact us for more information).

A4RD LCD DISPLAYS	10"4	12"	15"	12"W	15"6 W	17"3 W
	XGA	XGA	XGA	WXGA	HD	
A4RD Series	A4RD10 XG	A4RD12 XG	A4RD15 XG	A4RD12 WX	A4RD15 HD	A4RD17 HD
Screen Ratio	4/3	4/3	4/3	16/10	16/9	
Resolution	1024 x 768	1024 x 768	1024 x 768	1280 x 800	1920 x 1080	
A4RD Standard Luminance cd/m²	600	700	700	700	400	300
Viewing Angles	85°/85°-85°/85° IPS™	85°/85°-85°/85° IPS™	85°/85°-85°/85° IPS™	85°/85°-85°/85° IPS™	80°/80°- 65°/80°	80°/80°- 60°/80°
A4RD Outdoor Luminance cd/m² (option)	700	900	1000	1000	On customer request	
Viewing Angles	80°/80°- 80°/80°	80°/80°- 80°/80°	80°/80°- 60°/80°	80°/80°- 60°/80°		
Sunlight readability (option)	IRTS bonding technology (applicable to standard & outdoor versions)	IRTS bonding technology (applicable to standard & outdoor versions)	IRTS bonding technology (applicable to standard & outdoor versions)			

PRODUCT RANGE

Depending on the application, our range offers products that will comply with your size, ruggedization and environmental conditions requirements.

Oil & Gas, Mining
Maritime, ATEX

A4RD for Industry			A4RD Range		
			SKU L		
	Display Size	A4RD Series	Rugged Model		
10"	10"4 XGA (1024 x 768)	A4RD10 XG	5710 XG SK1		
12"	12" XGA (1024 x 768)	A4RD12 XG	5712 XG SK1		
	12" WXGA (1280 x 800)	A4RD12 WX	5712 WX SK1		
15"	15" XGA (1024 x 768)	A4RD15 XG	5715 XG SK1		
	15"6 HD (1920 x 1080)	A4RD15 HD	5715 HD SK1		
17"	17"3 HD (1920 x 1080)	A4RD17 HD	5717 HD SK1		
Power Supply Characteristics					
DC Power Supply			18/36 VDC		
AC Power Supply			85/265 VAC 50-400Hz		
1 Ruggedization Level			Operating Environmental Conditions		
Operating Temperature Range			Level L		
Standard range			- 20° to + 55°C		
Option			- 32° to + 60°C		
Mechanical EN60069			Level L		
Vibrations			10-500 Hz: 2G/3 axes to EN 60068-2-6		
Shocks			30 g 11 msec Half Sine, 3 axes to EN 60068-2-27		
EMC/EMI CE Standards			Level L		
EN 61000 - Generic standards			EN 61000-6-2, Immunity for industrial environments		
EN 55022 - Radio disturbance			EN 55022 Class B, Emission & susceptibility		

IRTS
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Tel.: +33 (0)4 94 20 78 00 ▪ Fax : +33 (0)4 94 20 78 01 ——— RUGGED & ULTRA-RUGGED ELECTRONICS AND DISPLAYS
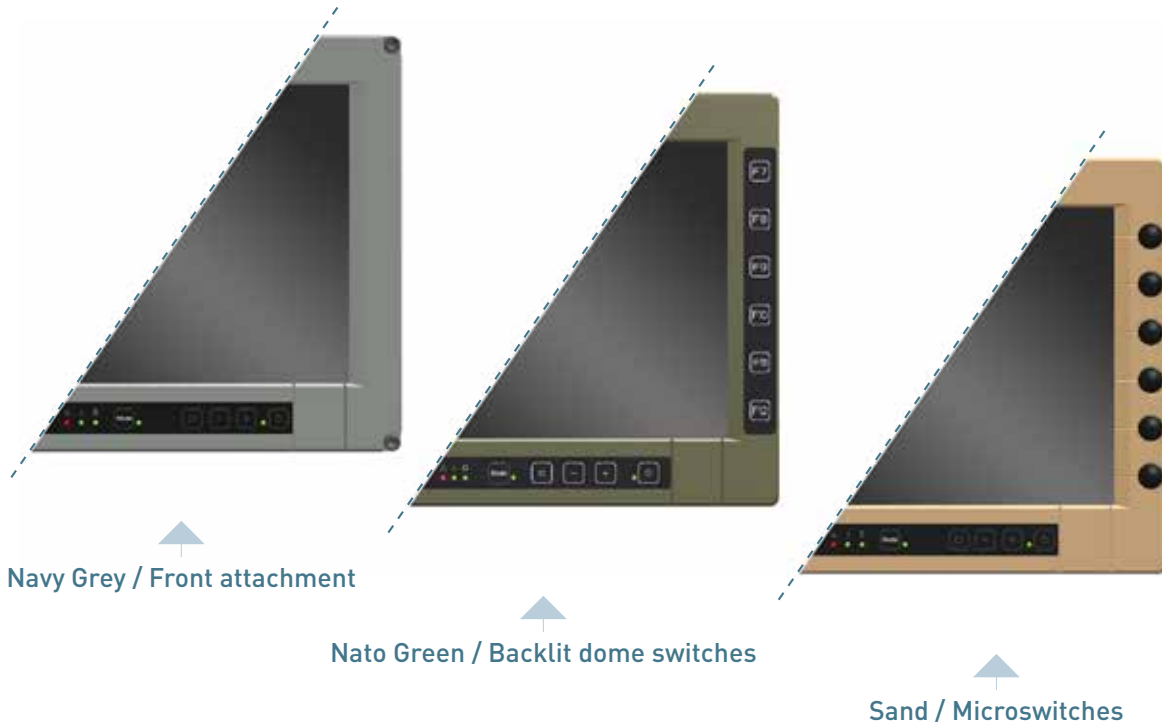IRTS NATO CODE : FAAJ7
Contact : sales@irts.fr ▪ www.irts.fr

ENVIRONMENTAL CONDITIONS

The table below shows our benchmark for environmental standards.

Environmental conditions	
Vibrations	EN 60068-2-6
Shocks	EN 60068-2-27
EMC	EN 61000-6-2, EN 55022 Class B
Humidity	10 % to 90 % Relative Humidity, non-condensing
Operating temperature	EN 60068-2-32
Waterproofness	IP 68 / NEMA 6P, immersion 1 meter

FRONT BUTTONS OPTIONS AND PRODUCT MOUNTING

Front buttons can be proposed as option. Contact us.
Standard rear mounting is assured by 4 x M8 screws.
Front attachement is made on specific request with Minimum Quantity Order.
It offers 4 x M5 screws for front mounting.

Navy Grey / Front attachment

Nato Green / Backlit dome switches

Sand / Microswitches

COLOR PRODUCT

Standard color is black (GAM C Black 36X3).
Other colors can be proposed on request with Minimum Order Quantity.

TECHNICAL LAYOUT

Dimensions are in millimeters (mm).
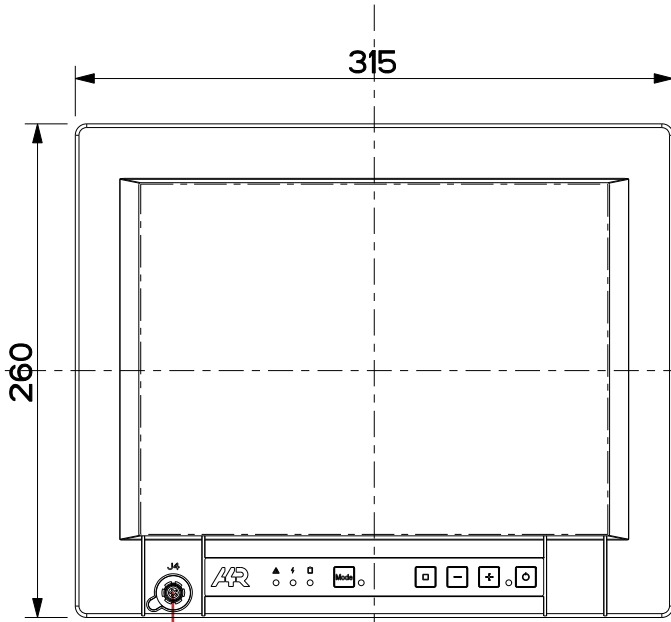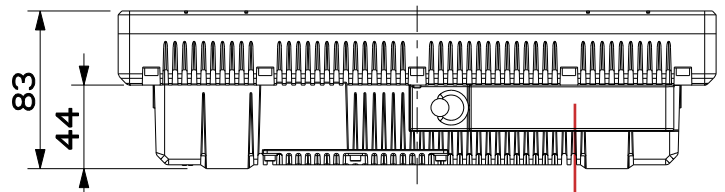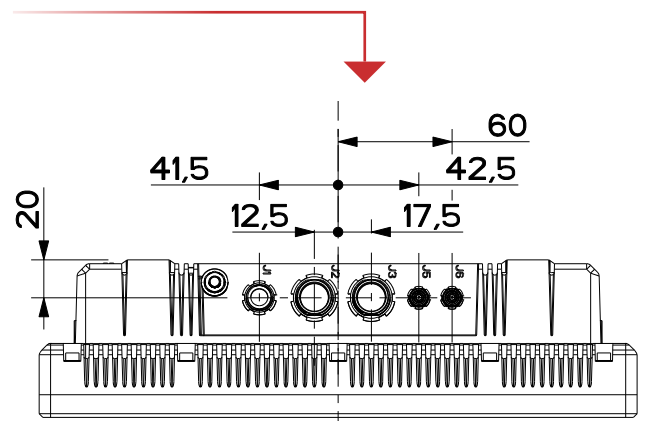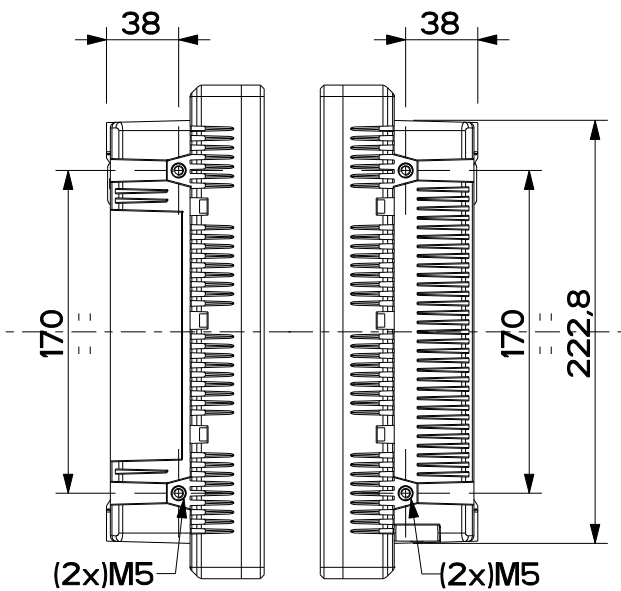

Standard front USB connector
that can be removed as an option

(4x)M8
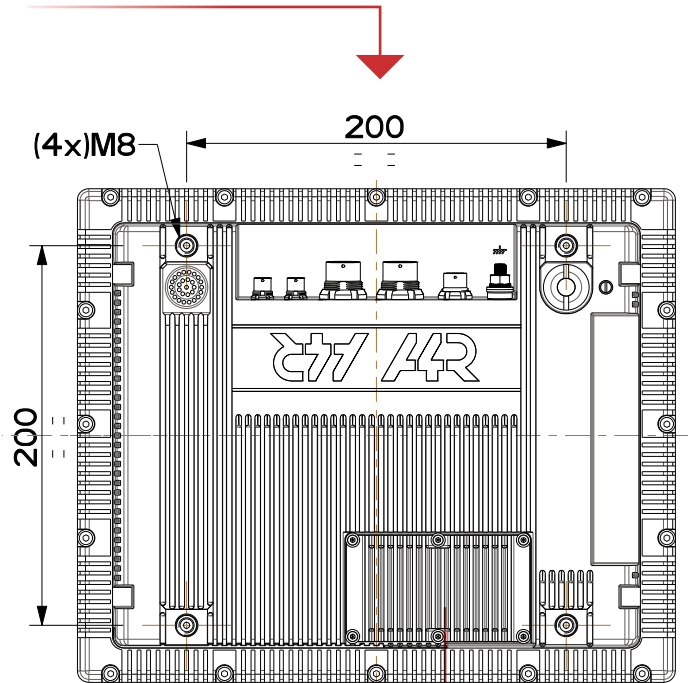
Optional battery hatch

(2x)M5   (2x)M5

Optional removable hard drive hatch