

# Letter of Volatility

## for the X2 HMI Panel family

To whom it may concern

Thank you for requesting a letter of volatility for our X2 HMI Panel product family. We take security very seriously, and are glad to share the volatility information of our products with you.

### Product Models

X2 base 5,  
X2 base 7  
X2 base 10

Type	Size	Volatility	Type of Information	Method of Clearing
SDRAM	128MB	Volatile	Temporary OS and customer data	Cycle Power
EEPROM (FID)	1KB	Non-volatile	Display information	Production Tool
Flash	256MB	Non-volatile	OS image and user project	OS Image Update or project delete

### Product Models

X2 pro 4 - B2,  
X2 pro 7 - B2, X2 marine 7 - B2

Type	Size	Volatility	Type of Information	Method of Clearing
OCRAM (CPU)	128KB	Volatile	Temporary data (OS)	Cycle Power
Secure RAM (CPU)	16KB	Volatile	Temporary data (OS)	Cycle Power
ROM (CPU)	96KB	Non-volatile	CPU Pre-Bootloader	None (OTP)
FLASH EEPROM	4MB	Non-volatile	OS Boot loader	Production Tool
EEPROM (FID)	1KB	Non-volatile	Display information	Production Tool
EEPROM	2KB	Non-volatile	Board configuration	Production Tool
SDRAM DDR3	0.5 GB	Volatile	Temporary OS and customer data	Cycle Power
eMMC (Partition #1)	0.5 GB	Non-volatile	OS image	OS Image Update
eMMC (Partition #2)	1.5 GB	Non-volatile	User Project	Project deletion

### Product Models

X2 control 4 - B2, X2 motion 4 - B2  
X2 control 7 - B2, X2 motion 7 - B2, X2 marine 7 - B2 SC

Type	Size	Volatility	Type of Information	Method of Clearing
OCRAM (CPU)	128KB	Volatile	Temporary data (OS)	Cycle Power
Secure RAM (CPU)	16KB	Volatile	Temporary data (OS)	Cycle Power
ROM (CPU)	96KB	Non-volatile	CPU Pre-Bootloader	None (OTP)
FLASH EEPROM	4MB	Non-volatile	OS Boot loader	Production Tool
EEPROM (FID)	1KB	Non-volatile	Display information	Production Tool
EEPROM	2KB	Non-volatile	Board configuration	Production Tool
SDRAM DDR3	1 GB	Volatile	Temporary OS and customer data	Cycle Power
eMMC (Partition #1)	0.5 GB	Non-volatile	OS image	OS Image Update
eMMC (Partition #2)	1.5 GB	Non-volatile	User Project	Project deletion
Static RAM (Battery Backed)	128KB	Non-volatile	Soft PLC Variables	Project deletion, Battery removal

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# Letter of Volatility

## for the X2 HMI Panel family

**Product Models**

X2 pro 10 - B2,  
 X2 pro 12 - B2,  
 X2 pro 15 - B2, X2 marine 15 - B2

Type	Size	Volatility	Type of Information	Method of Clearing
OCRAM	128KB	Volatile	Temporary data (OS)	Cycle Power
Secure RAM	16KB	Volatile	Temporary data (OS)	Cycle Power
ROM	96KB	Non-volatile	CPU Pre-Bootloader	None (OTP)
FLASH EEPROM	4MB	Non-volatile	OS Boot loader	Production Tool
EEPROM (FID)	2KB	Non-volatile	Display information	Production Tool
EEPROM	2KB	Non-volatile	Board configuration	Production Tool
SDRAM DDR3	1 GB	Volatile	Temporary OS and customer data	Cycle Power
eMMC (Partition #1)	0.5 GB	Non-volatile	OS image	OS Image Update
eMMC (Partition #2)	1.5 GB	Non-volatile	User Project	Project deletion
FLASH (Touch Ctlr.)	16KB	Non-volatile	Touch Ctlr. Firmware	Production Tool
RAM (Touch-Ctlr.)	1KB	Volatile	Touch Ctlr. Data	Cycle Power

**Product Models**

X2 marine 7 - B2 HB, X2 marine 7 - B2 HB SC,  
 X2 control 10 - B2, X2 motion 10 - B2  
 X2 control 12 - B2, X2 motion 12 - B2  
 X2 control 15 - B2, X2 motion 15 - B2,  
 X2 marine 15 - B2 SC, X2 marine 15 - B2 HB SC, X2 marine 15 - B2 HB  
 X2 pro 21 - B2

Type	Size	Volatility	Type of Information	Method of Clearing
OCRAM	128KB	Volatile	Temporary data (OS)	Cycle Power
Secure RAM	16KB	Volatile	Temporary data (OS)	Cycle Power
ROM	96KB	Non-volatile	CPU Pre-Bootloader	None (OTP)
FLASH EEPROM	4MB	Non-volatile	OS Boot loader	Production Tool
EEPROM (FID)	2KB	Non-volatile	Display information	Production Tool
EEPROM	2KB	Non-volatile	Board configuration	Production Tool
SDRAM DDR3	2 GB	Volatile	Temporary OS and customer data)	Cycle Power
eMMC (Partition #1)	0.5 GB	Non-volatile	OS image	OS Image Update
eMMC (Partition #2)	1.5 GB	Non-volatile	User Project	Project deletion
Static RAM (Battery Backed)	128KB	Non-volatile	Soft PLC Variables	Project deletion, Battery removal
FLASH (Touch Ctlr.)	16KB	Non-volatile	Touch Ctlr. Firmware	Production Tool
RAM (Touch-Ctlr.)	1KB	Volatile	Touch Ctlr. Data	Cycle Power

Axel Gustafson  
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