DATASHEET

HATTELAND TECHNOLOGY
an EMBRON Company

Manufacturer:	**Hatteland Technology AS**
Product:	**27.0 inch Single Cable Monitor (SCM)**
Type:	**HD 27T30 SCM-xyy-yyyy**
	where x=Power Input, y=configuration

Last Revised:	**20 Feb 2023**
Revision#:	**02**

27.0 inch Single Cable Monitor - Series E

Features:

The HATTELAND® Single Cable Monitors (SCM) delivers a reliable all-in-one solution for diverse maritime applications and enables tangible cost savings for maritime technology and equipment manufacturers as well as systems integrators.

The integrated nature of HATTELAND® Single Cable Monitors (SCM) enables tangible cost savings for maritime technology and equipment manufacturers as well as systems integrators. The portfolio features a range of monitor sizes, new USB-C interface technology which carrying DP, power and USB signals, Daisy chain capability, which enables single cable operation. Providing full flexibility to integrate the highest quality monitors in a wider range of maritime technology. Especially suited to developing new bridge solutions, the units make it possible to continue improving safety and efficiency through safe navigation, while still retaining focus on quality and cost.

The units also meet the same extreme quality standards as the proven Series X Display range and feature LED Backlight Technology, full dimming (0-100%) all as standard. In addition there are options such as USB-C PD Sink, Multi-Power (AC/DC) inputs, Single AC and DC input. The product range can also accommodate and combine multi-touch screen and optical bonding. By factory deafult the unit is ECDIS Compliant.

FRONT VIEW
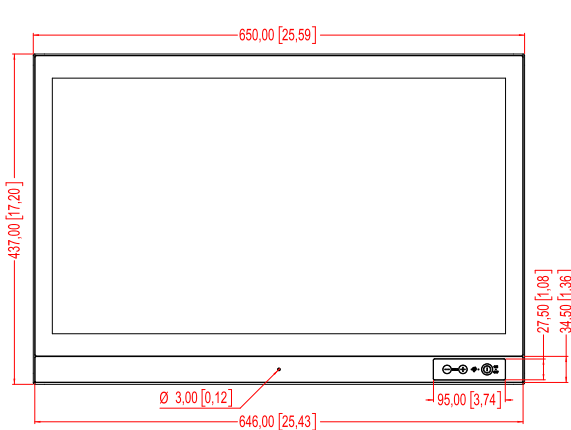
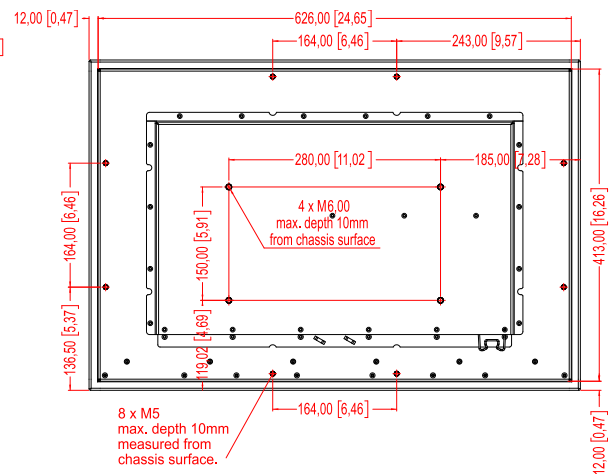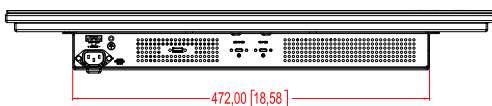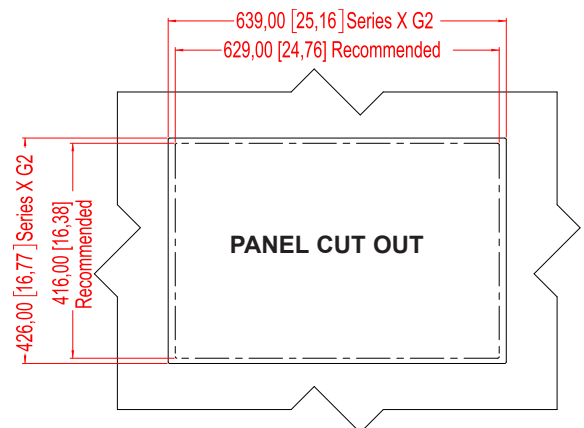**SIDE VIEW**
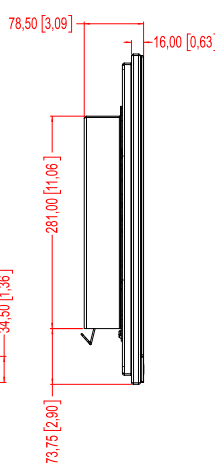
BACK VIEW

BOTTOM VIEW

TOP VIEW

PANEL CUT OUT

Dimensions might be shown with or without decimals and indicated as mm [inches]. Tolerance on drawings is +/- 1mm. For accurate measurements, check relevant DWG file.

SPECIFICATIONS

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TFT Technology:
- LED Backlight Technology, Color Active Matrix
- 27.0 inch viewable image size, Widescreen, Aspect Ratio 16:9
- a-SI (amorphous silicon) Thin Film Transistor (TFT)

TFT Characteristics:
- Native Resolution : 1920 x 1080 (FHD)
- Pixel Pitch (RGB) : 0.31125 (H) x 0.31125 (V) mm
- Response Time : 12 ms (typical) (on/off)
- Contrast Ratio : 3000:1 (typical)
- Light Intensity : 300 cd/m² (typical)
- Viewable Angle : +/- 89 deg. (typical) (Up/Down/Left/Right)
- Active Display Area : 597.6 (H) x 336.15 (V) mm
- Max Colors : 16.7 million

Supported Signals:
Resolutions:
- VGA : 640 x 480 (including 640 x 350)
- SVGA : 800 x 600 (including 720 x 400)
- XGA : 1024 x 768
- SXGA : 1280 x 1024
- UXGA : 1600 x 1200
- FHD : 1920 x 1080 [2]

[2] Recommended for optimal picture quality
[2] USB- C PD Supports DisplayPort signal - up to 1920 x 1080 (FHD)

Power Specifications:
Power Supply Options:
- Multi-Power Option : 100-240V AC - 50/60Hz + 24VDC
- Single AC Power Option : 100-240V AC - 50/60Hz
- Single DC Power Option : 12-24VDC
- USB-C PD Sink [3] : 20VDC/3A (Requested)

[3] If already connected to USB-C (Supports PD sink) and additional external power is connected to the monitor, internal 12V PSU will start to deliverpower through USB-C. User may experience short interval of black screen blinking.

Power Consumption - Operating:
- AC+DC: 43W (typ) - 156W (max)
- AC: 43W (typ) - 125W (max)
- USB-C PD SINK: 43W (typ) - 156W (max)

Note: You may connect either AC power or DC power or both. In case both sources are connected, power will be sourced from the AC input. If AC input is lost, there will be a uninterrupted switch-over to DC input.

Physical Dimensions:
Product Dimensions and Weight:
- W:650.00 [25.59"] x H:437.00 [17.20"] x D:78.50 [3.09"] mm [inch]
- VESA 280x150mm supported
- Weight: 10.7kg / 23.59lbs

User Controls:
Behind front bezel - Glass Display Control™ (GDC) IP67:
- 3 x Buttons (Power On/Off, Brightness -/+)

Remote Control:
- DDC/CI over DP (over USB-C) [1]
- SCOM over DP (over USB-C) [1]

[1] See latest revision of user manual

Environmental Considerations:
- Operating Temperature : -15°C to +55°C
- Storage Temperature : -20°C to +60°C
- Humidity : Humidity up to 95% (Operating / Storage)
- IP-Rating Protection : IP66 front - IP20 rear (EN60529).
- Compass Safe Distance : Standard: 80cm - Steering: 60cm

Lifetime Considerations:
Even though the test conditions for bridge units provide for a maximum operating temperature of 55°C, continuous operation of all electronic components should, if possible, take place at ambient temperatures of only 25°C. This is a necessary prerequisite for long life and low service costs.

Input/Output Connectors:

Connector	Rear
• USB-C Input	: 1 x USB-C Female with DP, power (sink) and USB2.0
• USB-C Output	: 1 x USB-C Female with DP and USB2.0
• USB 2.0 Input	: 1 x USB 2.0 Host Type A Female
• If AC Power	: 1 x Std IEC inlet
• If DC Power	: 1 x 2-pin Terminal Block 5.08

Factory Options:
- Projected Capacitive Touch Screen (Multitouch,USB,Pen/Glove support)
- Optical Bonding Technology
- Color Calibrated models (ECDIS)

Accessories:
- HD CMB SE1-B1 : 1 x Console Mount Kit. EN60945 Tested*
- VSD203453-1 : 1 x 2m USB-C (male) extension cable for 4K@24b@60Hz*
- HD TMB SE1-B1 : 1 x Table Mount Bracket. EN60945 Tested
- HD VED SX1-A1 : 1 x VESA Adapter, not EN60945 Tested
- HT DPUSB-2-USBC-A1 : 1 x DP & USB2.0 (Female) to USB-C (Male) Adapter cable 2m
- HT HDMIUSB-2-USBC-A1 : 1 x HDMI & USB2.0 (Female) to USB-C (Male) Adapter cable, 2m

*Included in delivery

APPROVALS & CERTIFICATES
This product have been tested / type approved by the following classification societies: (*=pending)

IEC 60945 4th (EN 60945:2002)*   **IACS E10***   **EU RO MR** - Mutual Recognition by DNV*   **KR** - Korean Register of Shipping*
ABS - American Bureau of Shipping*   **BV** - Bureau Veritas*   **CCS** - China Classification Society*   **ClassNK** - Nippon Kaiji Kyokai*
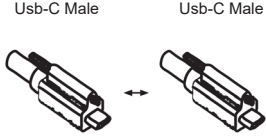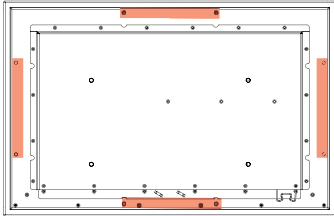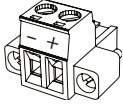
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Details: Contents of Package

Note: Entries listed below are for Standard factory shipments. Customized factory shipments may deviate from this list.

Item	Description	Illustration
TP52/TC01-1,8M	1 x Power Cable (Black) European Type F "Schuko" to IEC. Length 1.8m	EUR TYPE F ↔ IEC
TP11/TC01-1,8M	1 x Power Cable (Black) US Type B plug to IEC. Length 1.8m	US TYPE B ↔ IEC
VSD203453-1	1 x USB-C (male) extension cable for 4K@24b@60Hz. Length 2.0m	Usb-C Male ↔ Usb-C Male
HD CMB SE1-B1 EN60945 Tested	Bracket Kit suitable for console/panel mounting Suitable for panel thickness min: 2.00 [0.08] to max 40.00 [1.57"] mm [inch].	
1109889	Terminal Block Connector Kit as follows (may in some cases be already factory mounted): 1 x 2-pin Terminal Block 5.08 for DC Power In Refer to "Configuring Housing / Terminal Block Connector" section for usage.	
	Test Reports papers	

Details: Serial Number Label

Serial Number Label Layout (example)

Manufacturer/Country
Input Voltage(s)
Power Rating Max/Typ
Date of Production (YYYY-MM-DD)

27" Single Cable Monitor **HATTELAND®**
Manufactured by Hatteland Technology AS, Norway
Compass Safe Distance Standard:TBDcm - Steering: TBDcm
100-240V AC 50/60Hz
24V DC   IP20
TBDW (Typical: TBDW)   TYPE NUMBER-SERIAL NUMBER
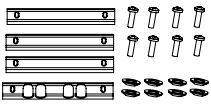**MFR Date: 2022-01-17**   **HD 27T30 SCM-xxx-xxxx-123456**

CE

Compass Safe Distance

IP Rating
Lowest value used, higher may apply, check specifications.

Type+Serial Number

Barcode (TYP+SNO)

Please note that typenumber shown above is a generic sample only. Please review actual product S/N label.

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Details: Product Labels

ID	Label Layout	Description	Specification
1	27" Single Cable Monitor **HATTELAND®** Manufactured by Hatteland Technology AS, Norway Compass Safe Distance Standard:TBDcm - Steering: TBDcm 100-240V AC 50/60Hz 24V DC IP20 TBDW (Typical: TBDW) TYPE NUMBER-SERIAL NUMBER MFR Date: 2022-01-17 HD 27T30 SCM-xxx-xxxx-123456 CE	**Type** : Serial Number Label **Size** : 60mm wide x 20mm high (rectangle size) Label 1 of 2 mounted as illustrated below. Label 2 of 2 mounted on Main Box in "LABEL" area.	Silver with glue on back, non-tearable and made for thermal transfer printing.
		Barcode type: CODE128 (used extensively world wide in shipping and packaging industries. The symbology was formerly defined as ISO/IEC 15417:2007.)	
4	WARRANTY VOID IF REMOVED	**Type** : Warranty Label **Size** : 30mm wide x 23mm high (oval size) **Amount** : 2 pcs	Tamper-proof sticker with glue on back.
9	CE UK CA QUALITY CONTROL OK✔ QC IND105459-5	**Type** : Product Label - single power **Size** : 60mm wide x 26mm high (rectangle size)	Black with glue on back.
9	⚡ Caution Shock Hazard Disconnect all power sources CE UK CA QUALITY CONTROL OK✔ QC IND105459-6	**Type** : Product Label - dual power **Size** : 60mm wide x 26mm high (rectangle size)	Black with glue on back.

Details: Label Positions

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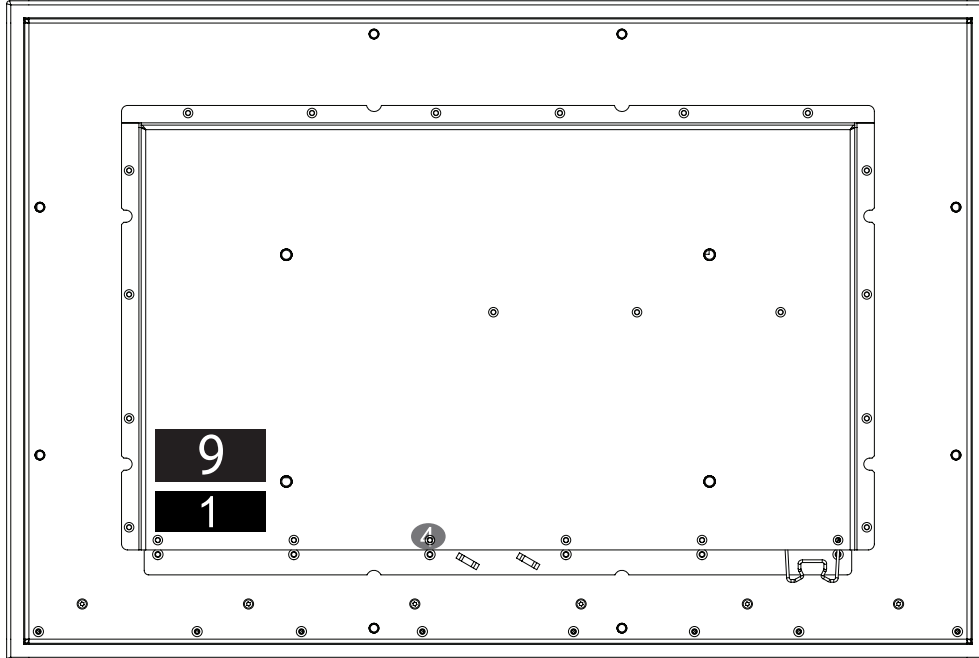
Details: Supported SCOM commands

CMD

Message Commands and Queries (CMD) Contents

The command can be one of the following values and consists always of 3 bytes in positions 2,3,4:

Byte 2	Byte 3	Byte 4	ASCII	Description	I/O	Non-Volatile / Volatile	Page
0x42	0x52	0x49	BRI	Minimum Brightness	R/W	NV	15
0x42	0x52	0x4D	BRM	Maximum Brightness	R/W	NV	16
0x42	0x52	0x54	BRT	Brightness Control	R/W	V	17
0x42	0x52	0x4C	BRL	GDC LED Brightness Control	R/W	NV	18
0x42	0x52	0x55	BRU	User Brightness Control	R/W	NV	19
0x47	0x4D	0x42	GMB	GDC minimum brightness	R/W	NV	20
0x47	0x42	0x46	GBF	Keypad Brightness auto follow	R/W	NV	21
0x4C	0x49	0x53	LIS	Read Ambient Light Sensor	R		24
0x4F	0x44	0x4D	ODM	Outdoor Mode	R/W	NV	25
0x52	0x45	0x43	REC	Recall GDC	W		26
0x50	0x4F	0x54	POT	Potential Meter Control	R/W	NV	27
0x42	0x5A	0x5A	BZZ	Buzzer Control On/OFF	R/W	V	28
0x53	0x57	0x49	SWI	Read NXP Firmware Version	R		30
0x53	0x57	0x56	SWV	Read Video Scaler Firmware Version	R		30
0x54	0x59	0x50	TYP	Read Type Number	R		31
0x53	0x4E	0x42	SNB	Read Serial Number	R		31
0x53	0x43	0x49	SCI	Write Customer Service ID	W	NV	32
0x43	0x53	0x49	CSI	Read Customer Service ID	R		32
0x45	0x54	0x43	ETC	Elapsed Time Counter Query System	R		32
0x4D	0x41	0x4E	MAN	Read Manufacture ID Code	R		33
0x54	0x4D	0x50	TMP	Read Temperature Sensor	R		33
0x56	0x45	0x52	VER	Inquiry specific Type Number	R		34
0x46	0x57	0x56	FWV	Inquiry Firmware Versions	R		34
0x43	0x42	0x52	CBR	COM1&2 Port Baudrate	R/W	NV	35
0x42	0x41	0x4B	BAK	Turn on/off acknowledge on broadcast command	R/W	NV	36
0x44	0x4C	0x4E	DLN	Download ECDIS Package	R		37
0x44	0x4C	0x3F	DL?	Request Number of available ECDIS Pack	R		38
0x43	0x41	0x4C	CAL	ECDIS calibrated brightness inquiry	R		39
0x52	0x43	0x46	RCF	Recall Factory default	W		40
0x50	0x57	0x52	PWR	Power On/Off/Sleep unit	W		41
0x56	0x55	0x52	VUR	Read User Configuration from Video Scaler	R		42
0x56	0x55	0x53	VUS	Write User Configuration to Video Scaler	W		43
0x07	0xFF	0x4D	MOD	Operation Mode Selection	R/W		44
0x4D	0x43	0x43	MCC	OSD Menu Control Commands + Commands List Table*	R/W		45-54

I/O   = R=Read, W=Write.
Volatile   = V=The variable values controlled by these commands are cleared at power restart).
Non-Volatile   = NV=The variable values controlled by these commands are stored even after power restart.
Page #   = Page number in this manual where command is detailed.

*MCC
OSD Menu Control Commands. "MCC" command also features a Query "?" mode, "R" or "r" reset mode to factory default, increase +1 from current value "+" and decrease -1 from current value "-". Details and usage of these commands are available later in this manual.

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Details: Supported DDC/CI commands

Introduction

DDC/CI (Display Data Channel/Command Interface) specifies a means for a computer to send commands to the unit's Display Video Controller to programmatically adjust parameters of the display instead of pressing physical buttons or navigate through an OSD menu. Specific commands to control units are defined in a separate official Monitor Control Command Set (MCCS) industry standard. The signal inputs supported are DVI*, HDMI, DisplayPort (DP) and VGA*.

To determine if your unit has the DDC/CI commands supported as described in this chapter, please review the "On Screen Display (OSD) Menu" chapter (Service section) in this manual.

It is expected that the user has previous experience of the DDC/CI protocol and how to implement the commands in their own control applications. A suitable starting point for sending commands, are the GUI operated (or command line version) of softMCCS software, reference: http://www.entechtaiwan.com/lib/softmccs.shtm

The listed DDC/CI commands below are equivalent to the same functions available in the well implemented Hatteland Technology Serial/Ethernet Communication Control Interface (SCOM) protocol, where specified, reference: https://www.hattelandtechnology.com/hubfs/pdfget/inb100018-6.htm

The column "SCOM" is a reference and not part of the DDC/CI commands explained in the table below.

> *NOTE: This chapter is an overall description of DDC/CI support for various/selected Hatteland Technology products. References to VGA (RGB), DVI and Composite may not be present on your product, due to hardware changes/Engineering Change Notifications issued for Multi Vision Displays (MVD), please check actual datasheet for your model to verify.
> Reference: https://www.hattelandtechnology.com/product-notifications/hardware-change-/-upgrade-for-32inch-and-55inch-products

Syntax: [S] = Start Condition & [P] = Stop Condition (marked with gray color). Numbers in black/green/red colors are Byte Value in Hexadecimal.

Description	Syntax and Functionality	Details and Values	Via SCOM
User Brightness Control (backlight) (0x10)	Set/Write Brightness value: [S] <6E:w> 51 84 03 10 00 xx FD [P] Reply of successfull request: [S] <6F:r> FD 80 BE*[P] Read Brightness value: [S] <6E:w> 51 82 01 10 AC [P] Reply of successfull request: [S] <6F:r> 6E 88 02 00 10 00 00 FF 00 xx 95*[P]	10 = Command ID Where xx = 0 to 255 **Min-Max Range:** 0-255 (0x00-0xFF) During Read reply, these values will be present. Read/Write support.	BRT
Power Mode (Power On/Off/Sleep) (0xD6) *Note: Not the same as OSD's "Power Plan" function.	Write Power Mode: [S] <6E:w> 51 84 03 D6 00 xx 5C [P] Reply of successfull request: [S] <6F:r> 5C 80 BE*[P] Read Power Mode: [S] <6E:w> 51 82 01 D6 6A [P] Reply of successfull request: [S] <6F:r> 6E 88 02 00 D6 01 00 05 00 xx 67*[P]	D6 = Command ID Where xx is: 0x01 = On 0x02 = Standby 0x03 = Standby 0x04 = Standby 0x05 = OFF 0x3F = Read Command Read/Write support.	PWR
Glass Display Control™ (GDC) Brilliance Button (0xE2)	Set/Write Brilliance Value: [S] <6E:w> 51 84 03 E2 00 xx 68 [P] Reply of successfull request: [S] <6F:r> 68 80 BE*[P] Read Brilliance Value: [S] <6E:w> 51 82 01 E2 5E [P] Reply of successfull request: [S] <6F:r> 6E 88 02 00 E2 00 00 FF 00 xx 00*[P]	E2 = Command ID Where xx = 0 to 255 **Min-Max Range:** 0-255 (0x00-0xFF) During Read reply, these values will be present. Read/Write support.	BRU

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Description	Syntax and Functionality	Details and Values	Via SCOM

Color Mode: Kelvin Color Temperature (0x14)	Set/Write Color Temperature:
	`[S] <6E:w> 51 84 03 14 00 ww xx [P]`
	Reply of successfull request:
	`[S] <6F:r> xx 80 BE*[P]`
	
	Read Color Temperature Value:
	`[S] <6E:w> 51 82 01 14 A8 [P]`
	Reply of successfull request:
	`[S] <6F:r> 6E 88 02 00 14 00 00 0E 00 yy zz*[P]`
		14 = Command ID
		Where Write **ww xx**
		05 A9 = 6500
		07 AB = 8000
		08 A4 = 9300
		
		Where Read **yy zz**
		05 AB = 6500
		07 A9 = 8000
		08 A6 = 9300
		
		Read/Write support.
			MCC: (Color Temperature Select)

Gamma Calibration (0x14)	Set/Write Calibration:
	`[S] <6E:w> 51 84 03 14 00 ww xx [P]`
	Reply of successfull request:
	`[S] <6F:r> xx 80 BE*[P]`
	
	Read Calibration:
	`[S] <6E:w> 51 82 01 14 A8 [P]`
	Reply of successfull request:
	`[S] <6F:r> 6E 88 02 00 14 00 00 0E 00 yy zz*[P]`
		14 = Command ID
		Where Write **ww xx**
		0C A0 = VGA*
		0D A1 = DVI*
		0E A2 = DP
		0F A3 = HDMI
		
		Where Read **yy zz**
		0C A2 = VGA*
		0D A3 = DVI*
		0E A4 = DP
		0F A5 = HDMI
		
		Read/Write support.
			MCC: (Gamma (Calibration))

Buzzer Control (0xE5)
 	
Note:
May not be available on all models, please review specific datasheet if "Buzzer" is available.
	Write/Turn ON:
	`[S] <6E:w> 51 84 03 E5 00 FF 5C [P]`
	Reply of successfull request:
	`[S] <6F:r> 5C 80 BE*[P]`
	
	Write/Turn oFF:
	`[S] <6E:w> 51 84 03 E5 00 00 5D [P]`
	Reply of successfull Turn OFF request:
	`[S] <6F:r> 5D 80 BE*[P]`
		E5 = Command ID
		Where **FF** = Turn On
		Where **00** = Turn Off
		
		Write Support only.
			BZZ

Touch Power Mode (0xE6)	Write/Set Power Mode:
	`[S] <6E:w> 51 84 03 E6 00 xx A1 [P]`
	Reply of successfull request:
	`[S] <6F:r> 5C 80 BE*[P]`
	
	Read Power Mode:
	`[S] <6E:w> 51 82 01 E6 5A [P]`
	Reply of successfull request :
	`[S] <6F:r> 6E 88 02 00 E6 01 00 FF 00 FF 53*[P]`
		E6 = Command ID
		Where **xx** is: 00~FF
		
		Modes are described in INB100018-6 (SCOM) document.
		
		Read/Write support.
			MCC: (Touch Power Mode)

Actual Temperature (0xF0)	Read Temperature:
	`[S] <6E:w> 51 82 01 F0 4C [P]`
	Reply of successfull request:
	`[S] <6F:r> 6E 88 02 00 F0 01 ww xx yy zz 63*[P]`
		F0 = Command ID
		
		Read support.
		
		Reply 4 bytes (ww, xx, yy, zz) indicating degree in Celcius. Example: 0038
			TMP

Unit Run Time (0xF3)	Read Elapsed Hours:
	`[S] <6E:w> 51 82 01 F3 4F [P]`
	Reply of successfull request:
	`[S] <6F:r> 6E 88 02 00 F3 01 ww xx yy zz 63*[P]`
		F3 = Command ID
		
		Read support.
		
		Reply in ASCII 4 bytes (ww, xx, yy, zz) indicating hours. Example: 1038
			ETC

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Details: Supported USB-C PD SINK

USB-C PD Sink:

- USB-C PD sink power delivery only applicable with USB-C IN **1**
  Note: USB-C OUT does not provide USB-C PD power delivery function.
- Daisy chaining via standard MST protocol:
  - Up to 4* monitors with HD resolution
    * Actual max of monitors connected is platform/OS dependent
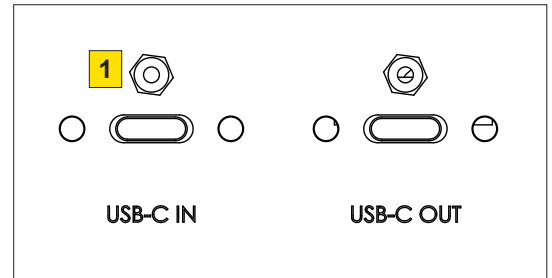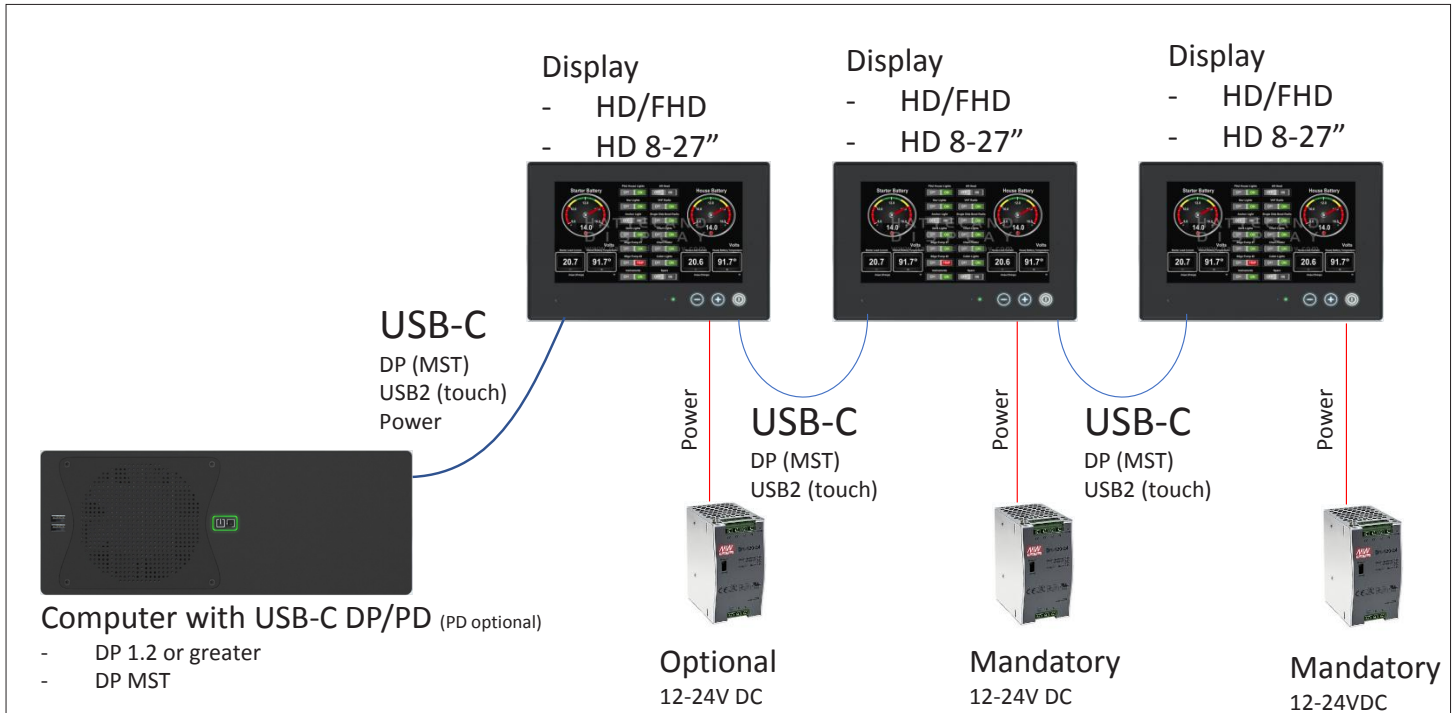- Communication and control of Display via DDC-CI.

1 USB-C IN   USB-C OUT

Illustration: USB-C Dasiy chaning, upto 3xFHD dispalys with touch. First display can be powered via USB-C.

Display
- HD/FHD
- HD 8-27"

Display
- HD/FHD
- HD 8-27"

Display
- HD/FHD
- HD 8-27"

USB-C
DP (MST)
USB2 (touch)
Power

USB-C
DP (MST)
USB2 (touch)

USB-C
DP (MST)
USB2 (touch)

Power

Power

Power

Computer with USB-C DP/PD (PD optional)
- DP 1.2 or greater
- DP MST

Optional
12-24V DC

Mandatory
12-24V DC

Mandatory
12-24VDC

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List over VIC compatible video sources:

Motherboard Chipset's	Hatteland Technology Models
Q370	- HTC03-xx-AC xxxxxxx - HTC03-xx-MP xxxxxxx - HT20370-xx AC Yxxxxxx - HT20370-xx DC Yxxxxxx
Q470	- HTS31470-xx-AC xxxxxxx - HTS41x11-xxxxx-AC xxxxxxx
RK3399 (Arm Board)	- NanoPC-T3 : "https://www.friendlyelec.com/index.php?route=product/product&product_id=225"

Graphics Cards	Link / Description
NVIDIA RTX4000	"https://www.pny.eu/en/professional/explore-all-products/nvidia-quadro/1047-nvidia-quadro-rtx-4000"
Aorus Radeon™ RX 6800 XT MASTER TYPE C 16G	"https://24h.pchome.com.tw/prod/DRAD1K-A900B35OX"
GeForce RTX™ 2080 Ti TURBO 11G	"https://24h.pchome.com.tw/prod/DRAD1K-A900A64VR"
ASUS ROG Strix GeForce RTX™ 2080Ti O11G GAMING	"https://24h.pchome.com.tw/prod/DRAD1N-A900BKG3Q"
GeForce RTX 2080 SUPER GAMING OC 8G	"https://24h.pchome.com.tw/prod/DRAD1K-A900A64QK"
ASUS ROG Strix GeForce RTX™ 2080Ti O11G GAMING	"https://24h.pchome.com.tw/prod/DRAD1N-A900BKEVF"

Devices	Link / Description
Oneplus 8 (Android Phone)	"https://www.oneplus.com/no/8"

SPECIFICATIONS

Note: All specifications are subject to change without prior notice!
Please visit www.hattelandtechnology.com for the latest electronic version.

HATTELAND TECHNOLOGY
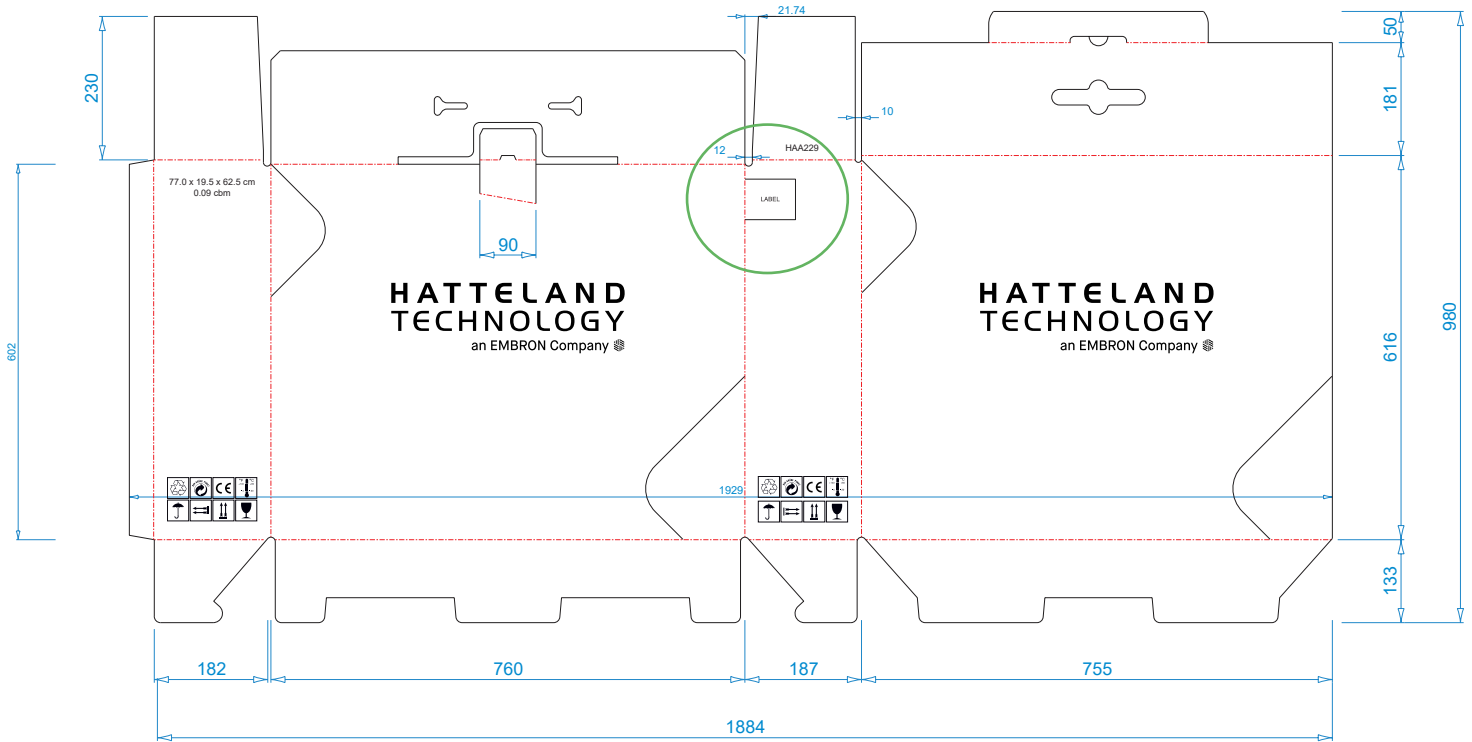an EMBRON Company

Details: Product Packaging

HAA229 (Main Box)

Shipping information:
Outer Dimensions: L:760 [29.92] x W:181.00 [7.12] x H:616.00 [24.25] mm [inch] - 0.09dm³
Weight: TBD

Green Indicates Label positions

77.0 x 19.5 x 62.5 cm
0.09 cbm

HAA229

LABEL

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230 · 602 · 90 · 21.74 · 12 · 10 · 50 · 181 · 616 · 980 · 133 · 1929 · 182 · 760 · 187 · 755 · 1884

HAA232 (Accessory Box)

Shipping information:
Outer Dimensions: L:713 [28.07] x W:157.00 [6.18] x H:54.00 [2.12] mm [inch]

157 · 54 · 713