

UReady™ 2RU Control Surface, Ethernet Connectivity, ARM Platform, Single Row Buttons

Densitron's modular design of HMI control surface is suitable for applications in Broadcast, Telecommunications, and other networked control and monitoring systems.

This universal touchscreen control surface is 2RU rack mountable, with an embedded ARM platform and Ethernet connectivity.

Tactile-touch is a Densitron proprietary technology* that provides the mechanical feeling of a button, combined with optical transparency, and interaction with a touchscreen display. Tactile control surfaces provide sensory feedback for operators, which touchscreens alone cannot easily do. This category of human-machine interaction allows operators to not have to look at the spatial location of their fingers, thus freeing them up to look at the associated control and monitoring tasks.

The visible active area through the transparent button allows text, graphics, images, even video thumbnails to be seen. This version of the tactile control surface has a single-row of 16 buttons on the lower-third. The upper two-thirds is a display and touchscreen area for display and interaction.

The display has 1920 x 285 pixels and an optically bonded capacitive touchscreen providing optimum optical quality. The display features wide-angle symmetric viewing making it easier to be used in many operational applications.

The embedded ARM platform is Densitron's Aurora SBX™ single board computer based on NXP i.MX6 utilising Quad core ARM® Cortex-A9 2GHz. The APU paired with onboard DDR3 RAM provides the performance to support contemporary multi-media requirements, and rich User Interfaces. The embedded Aurora Software Ecosystem (ASE) allows for rapid development of user's HMI applications.

Product Features

- Packaged into a single 2RU 19" rack metal chassis
- Single Row of 16 buttons on the bottom and with touch screen on top
- Each button has a pixel size of 54 x 54 pixels
- Display touch area of 409 x 37 mm with a pixel range of 1920 x
 175 Pixels
- Ethernet LAN up to 1Gbps
- Single 12V power supply
- NXP i.MX6 Quad core APU 4x ARM® Cortex®-A9 up to 1.0
 GHz with 2GB RAM
- uSD card Embedded Linux BSP (Aurora ASE)
- Display resolution of 1920 x 285 pixels with 24-bit colour depth of 16.4M colours
- 800cd/m^2 peak luminance and adjustable backlight
- Utilising MVA technology which offers 89/89/89 symmetric viewing
- These TFT modules are designed to operate continuously with backlight half-life of 50k hours and a temperature range of 0°C to +50°C
- UReady family offers optically bonded Projected Capacitive Touch (PCT) as standard
- "Out-of-the-box" development environment in virtual machine with Qt library Open Source (ASE), allowing cross compiling for faster development (supplied on 32GB USB dongle)
- Browser application (Firefox or Chromium) for rapid deployment of existing UIs and server-side functionality



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Component	Function	Value
Computer Board	Processor	NXP I.MX6 Quad core
	Memory	2 GB DDR3-1600
	Storage	Micro SD Card
	Audio	Line-out(left/right channels) x 1, Mic-in x 1
		x1 USB OTG and x2 User USB
	I/O (External)	SD Cards (boot x1, storage x1)
		Ethernet: 10/100/1000 Mbps x 1. IEEE 802.3af
		12V DC IN Jack
Panel	Size	16.3" 2RU
	Resolution	1920*285
	Visible Resolution	1920*175
	Pixels per inch	119
Touch	Brightness	800 cd/m ^ 2
	Туре	PCT
	Fingers	Multiple touch >5
Buttons	No. of buttons	Single Row of 16 buttons
	Visible Resolution	54*54
O/S	Embedded	Linux® BSP**



UReady[™] 2RU Control Surface, Ethernet Connectivity, ARM Platform, Single Row Buttons

Size	Part Number	Description
16.3"	DM-163GN-MBYR01	2RU control surface powered with ARM
		single row buttons



Contact your local sales office at www.densitron.com



 $^{^{\}star}$ Patent granted in Taiwan. Patent applied for in USA and EPO

^{**} For the latest available BSP version please enquire with your sales representative or visit www.densitron.com