BQC 817
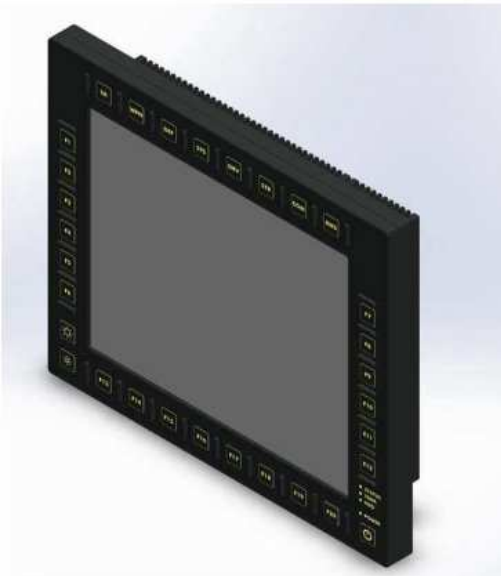
Rugged 17.0" Panel PC with 28 Function Keys

- Rugged Panel PC with 28 function keys at front

- 17.0" color TFT flat panel

- Skylake Intel ® Core™ i3-6100 (2 cores, 2.7GHz, 3MB, cache, 35w or
- Skylake Intel ® Core™ i5-6440EQ (4 cores, 2.7/3.4GHz, 6MB cache, 45W or
- Skylake Intel ® Core™ i7-6820EQ (4 cores, 2.8/3.5GHz, 8MB cache, 45W)

- 24 VDC (18~36 VDC) input

- Analog-resistive touch screen

- Full milled aluminum housing

Panel PCs which are used in ruthless circumstances are sometimes subjected to very rough treatment. The BQC product range offers very rugged Panel PCs with different Intel CPU technologies which are designed to deliver reliable performance even under harsh conditions in very demanding applications.

The passive cooling design of Bayteks BQC Panel PCs eliminates the need for ventilation openings. The chassis also has excellent shielding and dissipation characteristics. Independent test labs regularly verify the EMC (electro-magnetic compatibility) performance of BQC Panel PCs.

Resistance to shock and vibration and fault-free operation when the monitors are subjected to extreme temperature variations are also certified. A long service life and being service and maintenance free are particularly important criteria for components used in fast-paced fields such as the defence and naval sector and can be ensured by using BQC Panel PC's.

Our other product families for defence and harsh environmental applications

BayPanel

Industrial Rack Mount Monitors

BayQad

Rugged Monitors for Tripod Mounting

BQR

Rugged Data/Video Monitors for Defense & Naval Applications

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BQC 817-CX_I3-DC24-T Specification

DISPLAY
432.75 mm (17.0") SXGA LCD Panel
Active area: 337.920 (H) x 270.336 (V) mm (13.303" x 10.643"), Aspect ratio: 5 : 4 (Landscape format)
Technolgy: Active Matrix Liquid Crystal Display (AM-LCD) technology, morphous silicon TFT (Thin Film Transistor) technology, 16,7M colors
Screen resolution: 1280 (H) x 1024 (V) pixels
Pixel arrangement: RGB (Red dot, Green dot, Blue dot) vertical stripe
Dot pitch   0.088 (H) x 0.264 (V) mm (0.0034" x 0.010"), Pixel pitch: 0.264 (H) x 0.264 (V) mm (0.010" x 0.010")
Typical viewing angle: CR >= 10 : 1 - Horizontal: ±89° - Vertical: ±89°
Response Time (at @ 25°C ambient temperature) Ton + Toff (10% to 90% to 10%) 10 ms (typical)
Brightness: 250 cd/m² (typical) on LCD screen surface, Contrast rate: typical 1000:1

COMPONENT SPECIFICATION
COM-Express™ Embedded CPU and I/O Module Specifications
Skylake Intel® Core™ i3-6100E (2 cores, 2.7GHz, 3MB cache, 35W) or
Skylake Intel® Core™ i5-6440EQ (4 cores, 2.7/3.4GHz, 6MB cache, 45W) or
Skylake Intel® Core™ i7-6820EQ (4 cores, 2.8/3.5GHz, 8MB cache, 45W)
DRAM   4 GB uo to 32 DDR4L-1600 SDRAM, dual channel   2 x 204-pin SO-DIMM Socket (max. 16 GB)
External I/O Interfaces: 4x USB-A 2.0 Ports, 2x 10/100 and Gigabit Fast Ethernet Ports
Internal I/O Interfaces & Controller: 1x SATA Hard Disk Interface, 1x Touch Screen Controller
Graphic Interfaces: Motion Compensation, Sub-picture Support, Internal Flat Panel Interface: max. 112 MHz LVDS Transmitter
External CRT Interface using analog RGB HD-Sub (VGA) connector
COM Express™ Board Controller: Multi Stage Watchdog, Non-volatile User Data Storage
BIOS Features: AMI Aptio UEFI 2.x firmware, 8 MB serial SPI, LCD Backlight Brightness Control
Power Management: ACPI 3.0 compliant with battery support. Also supports Suspend to RAM (S3).
Operating System: Microsoft ® Windows ® 7 Professional Embedded
Mass Storage Device (SSD) Specifications: Form factor: 2.5", Interface: SATA 1.5Gb/s, Formatted capacity: 80 GB
Rotational speed: 4260 (RPM), Data buffer: 8MB, Latency average: 7.04 ms, Media transfer rate: 750 Mbits/s, max.
Interface transfer rate: 150 MB/s, max.

FRONT&CHASSIS
Front side placed OSD keypad -28 function keys (F1 to F20 and Dedicated Function Push Buttons)
Full milled aluminum housing, housing finish color: black RAL 9005
Standard VESA 100 mounting compatible (4x M4-8 thread holes) Additional mounting points (16x M4-8 thread holes)
Touch Screen Technology: Analog-resistive Touch Screen Sensor pane
24 VDC (18~36 VDC) input to 12 VDC (50 W) and 5 VDC (50 W) outputs
Dimensions (max.): 406 (w) x 338.40 (h) x 87 (d) [mm], weight: ~ 7.1 kg

CERTIFICATIONS
Temperature (built to meet) Operating: -20° C to 55° C (up to 63° C - max. 1 hour), Storage: -40° C to 70° C
RH, Relative Humidity (built to meet) Operating: 5% to 95% RH (40° C, non-condensing) Storage: 5% to 95% RH (40° C wet bulb temperature)
Altitude (built to meet) Operating: 12,000 feet (3,600 meter) Storage: 30,000 feet (10,000 meter)
Vibration, non-operating (built to meet) Compliance: MIL-STD-810
Shock, operating / non-operating (built to meet) Compliance: MIL-STD-167
Protection level (built to meet) Compliance: IP42 (front plate: IP65, cabinet: IP42)
EMI / EMC (built to meet) Compliance: CE

OPTIONS
Customized versions on agreement