





[ TIPRO ]

## BeFREE 20 (BF20)

15.0" Touchcomputer with Integrated Intercom



### Features

- A member of FREE modular family
- Space-saving integration of a fanless touchcomputer and an intercom (functional equivalent to the combination of BeFREE 15 and two Speakerbox modules)
- Low-profile horizontal design
- Silent and reliable - no moving parts, industrial grade components, Ethernet redundancy, redundant internal audio and controller interfaces
- Extensive connectivity (LAN, USB, COM, external display, digital inputs)
- Analogue audio connectivity (Line-In, Line-Out, Mic-In, InterCom-In, InterCom-Out)
- Cable management - hidden and secured, but accessible
- Built-in Tipro Controller
- Stereo loudspeakers (Left and Right, 2 x 2W) with two separate volume control encoders
- Central low-frequency loudspeaker (1 x 3W) with programmable equalizer
- Goose-neck microphone with illuminated PTT key
- Dual three-colour bar-graph display
- Five mechanical keys for brightness control, volume adjustments and other functions
- Several LED indicators (power, SSD, microphone, touchscreen ...)
- Optional Inclination Mechanism (VESA 75)

### Applications

- Operator/Dispatcher terminals/consolas for command and control centres in:
  - Transport and traffic control (railways, air traffic ...)
  - Public safety (police, fire brigades, ambulance ...)
  - Utilities (electricity, gas ...)
  - Building/facility management systems (airports, banks, industrial plants ...)
- Trading and banking consolas
- Multifunctional control panels



[ TIPRO ]

## Technical details

### Processor & Memory:

- Intel® Quad-Core J1900 at 2.0 GHz with 4 GB of RAM (optional 8 GB)

### General:

- Built-in Tipro Controller enables:
  - Modularity and programmability
  - Energy saving modes
  - Brightness adjustment
  - Touchscreen disable/enable control
  - Six programmable keys
  - Two programmable digital inputs
- Combinable with other FREE add-on modules into multifunctional terminals
- Built-in Intercom:
  - Dual USB audio device
  - HID telephony interface supported
  - Connected to the internal soundcard (analogue interface)
  - Up to six listening (output) and up to three recording (input) channels
  - Mechanical long-travel PTT key with background illumination
  - Two incremental encoders (endless potentiometer) for volume control
  - Dual three-colour bargraph display as VU meter, volume and brightness indicator
  - Analogue front-end designed to meet wide-band telephony standards
  - Programmable signal processing includes ambient noise suppression (noise gating), signal compression and limiting
  - Optional echo-cancellation circuitry with a digital signal processor

### Connectivity:

- 2 x LAN, 6 x USB, 1 x COM, 1 x VGA, 2 x digital input

### Mass Storage:

- Solid State Disk; 2.5" SATA, 256 GB

### TFT LCD:

- Size: 15.0" diagonal
- Resolution: 1024 x 768
- Luminance/Brightness: 400 cd/m<sup>2</sup> (typical)
- Contrast ratio: 500 : 1 (typical)

### Touchscreen:

- "Accutouch" 5-wire resistive of Elo

### Power Supply Unit (AC/DC Adapter):

- 12V/80W (included)

### Dimensions:

- Dimensions: 440 x 342 x 111 mm (WxDxH)
- Weight: 6.3 kg





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- Extensive connectivity (LAN, USB, COM, external display, digital inputs)
- Cable management - hidden and secured, but accessible
- Built-in Tipro Controller
- Stereo loudspeakers (Left and Right, 2 x 2W) with two separate volume control encoders
- Central low-frequency loudspeaker (1 x 1W) with programmable equalizer
- Goose-neck microphone with illuminated PTT key
- Dual three-colour bar-graph display
- Five mechanical keys for brightness control, volume adjustments and other functions
- Several LED indicators (power, SSD, microphone, touchscreen ...)
- Optional Inclination Mechanism (VESA 75)

### Applications

- Operator/Dispatcher terminals/consolas for command and control centres in:
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  - Programmable signal processing includes ambient noise suppression (noise gating), signal compression and limiting
  - Optional echo-cancellation circuitry with a digital signal processor

### Connectivity:

- 2 x LAN, 6 x USB, 1 x COM, 1 x VGA, 2 x digital input

### Mass Storage:

- Solid State Disk; 2.5" SATA, 128 GB

### NEW DISPLAY

#### TFT LCD:

- Size: 15.0" diagonal
- Resolution: 1024 x 768
- Luminance/Brightness: 500 cd/m<sup>2</sup> (typical)
- Contrast ratio: 2500 : 1 (typical)
- Viewing angle: 88° in all directions (typical)

### Touchscreen:

- "Accutouch" 5-wire resistive of Elo

### Power Supply Unit (AC/DC Adapter):

- 12V/80W (included)

### Dimensions:

- Dimensions: 440 x 342 x 111 mm (WxDxH)
- Weight: 6.3 kg

